DOCUMENT RESUME

ED 437 269 SE 063 013

TITLE	Grade 10 to Grade 12 Mathematics Resources: Annotated Bibliography.
INSTITUTION	Alberta Dept. of Education, Edmonton.
ISBN	ISBN-0-7785-0568-5
PUB DATE	1999-07-00
NOTE	81p.
AVAILABLE FROM	For full text: <http://www.wcp.ca>.
PUB TYPE	Reference Materials - Bibliographies (131)
EDRS PRICE	MF01/PC04 Plus Postage.
DESCRIPTORS	Annotated Bibliographies; *Educational Resources; Foreign Countries; Grade 10; Grade 11; Grade 12; High Schools; Instructional Materials; *Mathematics Curriculum; *Mathematics Education
IDENTIFIERS	Canada

ABSTRACT

This annotated bibliography identifies English language resources endorsed by all Western Canadian Protocol (WCP) jurisdictions implementing The Common Curriculum Framework for K-12 Mathematics Grade 10 to Grade 12. Resources in this annotated bibliography were selected through a collaborative review process based on their high level of fidelity with the rationale, philosophy, mathematical processes and outcomes of the Common Curriculum Framework. Resources underwent an intensive review and were found to be the most suitable of those submitted. During this review breadth, breadth and depth, depth, and teacher resources were identified for Pure Mathematics 10, 11, and 12, while depth and teacher resources were identified for selected parts of Applied Mathematics 10, 11, and 12. WCP Key Resources are high quality learning and teaching resources that best address the philosophy and content of the outcomes embodied in the Common Curriculum Framework. These include resources in a variety of media and formats with the following characteristics: (1) Breadth identifies learning resources with the highest possible level of fidelity to the general and specific outcomes published for a course; (2) Depth identifies learning resources that address a limited range of general and specific outcomes for a cluster or set of clusters but provide an especially effective learning experience for students; (3) Breadth and Depth identify comprehensive learning resources that provide both the breadth and depth dimensions for a particular course; and (4) Teacher Identified resources are those that assist teachers in the implementation of the Common Curriculum Framework and any courses derived from it. Each annotation includes series and title, resource designation, format, alternate format(s), cluster(s) grid, annotation, comments, cautions, system requirements, audience, course(s) grid, mathematical process(es) grid, and strand(s)/substrand(s) grid. (ASK)

ENTIRE DOCUMENT:
POOR PRINT QUALITY

Reproductions supplied by EDRS are the best that can be made
from the original document.

ED 437 269

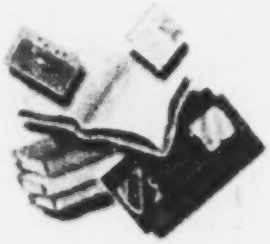
SE 060 013

WESTERN CANADIAN PROTOCOL
for collaboration in basic education

COMMON CURRICULUM FRAMEWORK

Grade 10 to Grade 12 Mathematics Resources

Annotated Bibliography



PERMISSION TO REPRODUCE AND DISSEMINATE THIS MATERIAL HAS BEEN GRANTED BY

C Andrews

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

☐ This document has been reproduced as received from the person or organization originating it.

☐ Minor changes have been made to improve reproduction quality.

• Points of view or opinions stated in this document do not necessarily represent official OERI position or policy.

July 1999

BEST COPY AVAILABLE

Western Canadian Protocol for Collaboration in Basic Education Common Curriculum Framework

Grade 10 to Grade 12 Mathematics Resources

Annotated Bibliography

JULY 1999

Copyright © 1999 by
The Governments of Manitoba, Saskatchewan, British Columbia, Yukon Territory, Northwest Territories and Alberta

CATALOGUING IN PUBLICATION DATA

Grade 10 to grade 12 mathematics resources : annotated bibliography.

Available in electronic format on the World Wide Web:
URL: http://www.wcp.ca/
ISBN 0-7785-0568-5

1. Mathematics — Study and teaching (Secondary) — Alberta — Bibliography. 2. Mathematics — Study and teaching (Secondary) — British Columbia — Bibliography. 3. Mathematics — Study and teaching (Secondary) — Manitoba — Bibliography. 4. Mathematics — Study and teaching (Secondary) — Saskatchewan — Bibliography. 5. Mathematics — Study and teaching (Secondary) — Northwest Territories — Bibliography. 6. Mathematics — Study and teaching (Secondary) — Yukon Territory — Bibliography. I. Title. II. Title: Western Canadian Protocol for Collaboration in Basic Education. III. Common Curriculum Framework.

QA14.C2.G732 1999 372.7

Copyright © 1999, the Crown in Right of the Governments of Manitoba, Saskatchewan, British Columbia, Yukon Territory, Northwest Territories and Alberta as represented by the Minister of Education and Training, Manitoba; the Minister of Education, Saskatchewan; the Minister of Education, British Columbia; the Minister of Education, Yukon Territory; the Minister of Education, Culture and Employment, Northwest Territories; and the Minister of Learning, Alberta.

Permission is given by the copyright owners to reproduce this document for educational purposes and on a nonprofit basis.

TABLE OF CONTENTS

Introduction 1

Applied Mathematics 10 ..... Applied Mathematics 10 – Page 1

Applied Mathematics 11 ..... Applied Mathematics 11 – Page 1

Applied Mathematics 12 ..... Applied Mathematics 12 – Page 1

Pure Mathematics 10 ..... Pure Mathematics 10 – Page 1

Pure Mathematics 11 ..... Pure Mathematics 11 – Page 1

Pure Mathematics 12 ..... Pure Mathematics 12 – Page 1

Title Listing ..... Title Listing – Page 1

INTRODUCTION

Background

The Western Canadian Protocol for Collaboration in Basic Education Kindergarten to Grade 12 was signed in December 1993 by the ministers of education from Manitoba, Saskatchewan, Alberta, British Columbia, Yukon Territory and the Northwest Territories. *The Common Curriculum Framework for K–12 Mathematics*, for Kindergarten to Grade 9, was released in June 1995 and Grade 10 to Grade 12 was released in June 1996.

Foreword

This annotated bibliography identifies the English language resources endorsed in April 1999, by all Western Canadian Protocol (WCP) jurisdictions implementing *The Common Curriculum Framework for K–12 Mathematics Grade 10 to Grade 12* (Common Curriculum Framework). For a complete listing of WCP approved resources for Grade 10 to Grade 12 mathematics, refer to this document and the May 1998 edition of the WCP Grade 10 to Grade 12 Mathematics Resources Annotated Bibliography, or visit the WCP web site at <http://www.wcp.ca>.

Note: The term "pure mathematics" is used in this document to emphasize the difference between pure and applied mathematics.

Resources in this annotated bibliography were selected, through a collaborative review process, based on their high level of fidelity with the rationale, philosophy, mathematical processes and outcomes of the Common Curriculum Framework. The resources have undergone an intensive review and were found to be the most suitable of those submitted.

During this review, breadth, breadth and depth, depth, and teacher resources were identified for Pure Mathematics 10, 11 and 12, while depth and teacher resources were identified for selected parts of Applied Mathematics 10, 11 and 12.

Acknowledgments

The Western Canadian Protocol jurisdictions would like to thank everyone involved in the review and selection processes to identify the best student and teacher resources to support the Kindergarten to Grade 12 mathematics framework. In 1999, 14 teachers and ministry staff were selected by the participating jurisdictions to review 212 items for Grade 10 to Grade 12, which were received in response to the invitation to publishers, producers and distributors for resource submissions.

Appreciation is also extended to all the school systems in the WCP jurisdictions that supported teachers participating in the review processes.

Finally, appreciation is extended to the publishers, producers and distributors who, in many cases, engaged in significant development to provide resources specifically designed for the Common Curriculum Framework.

Future Calls for Resources

This second call for resources for Grade 10 to Grade 12 mathematics resulted in the approval of additional resources to supplement the initial set of resources that support the Common Curriculum Framework. However, the set of approved resources is still incomplete, with large gaps in the resource base to address some of the

© Western Canadian Protocol

courses and clusters. Future calls for resources will be issued in an attempt to complete the collection of WCP approved resources for Kindergarten to Grade 12 mathematics.

The next call for mathematics resources for Kindergarten to Grade 12 should be issued later in 1999, and additional resources should be added to the WCP resource collection in the spring of 2000.

Applied Mathematics Breadth Resources

The first call for applied and pure mathematics Grade 10 to Grade 12 resources was issued on June 25, 1996. By the spring of 1997, there were concerns that there might not be any applied mathematics breadth resources developed and submitted for review by the February 2, 1998 submission deadline. Through correspondence with all relevant publishers, this assumption was confirmed. A "Request for Proposal" to develop applied mathematics breadth resources for grades 10, 11 and 12 was issued in the fall of 1997. The submissions received were evaluated and one company was selected. Addison-Wesley Longman Pearson Education is preparing an applied mathematics resource for each of grades 10, 11 and 12.

The timelines for developing the materials are as follows:

Applied Mathematics – Grade 10

- Final bound resource – June 1, 1999
- Teacher Resource Manual in three stages – August 1999, October 1999, December 1999

Applied Mathematics – Grade 11

- Entire manuscript – June 15, 1999
- Entire preprint document without colour – August 15, 1999
- Final bound resource – June 1, 2000

Applied Mathematics – Grade 12

- Entire preprint document without colour – June 1, 2000
- Final bound resource – June 1, 2001

Pure Mathematics Breadth Resources

As a result of the two calls for mathematics resources for Grade 10 to Grade 12, breadth and depth resources were identified for Pure Mathematics 10 and 11, while one breadth resource was identified for Pure Mathematics 12. It is anticipated that additional breadth or breadth and depth resources for pure mathematics will be received as part of the subsequent calls for resources.

Pure Mathematics – Grade 10

Four multicomponent series are approved as either WCP breadth and depth or breadth resources for Pure Mathematics 10.

Pure Mathematics – Grade 11

One breadth and depth and one breadth resource are approved as WCP resources for Pure Mathematics 11.

Pure Mathematics – Grade 12

One breadth resource is approved for Pure Mathematics 12. It is anticipated that additional suitable submissions will be received as part of the next call for resources.

Organization

The resources in this bibliography are organized by course, then alphabetically by title. Resources that are suitable for more than one course appear in each of the applicable courses, thus providing a

comprehensive list of materials for each course.

Annotations with resource descriptions have been written for each resource. Where material is deemed to be particularly useful for students with special needs or for small populations; e.g., learning disabled, gifted, this information is included in the *Audience* section of the annotation.

An alphabetical title listing at the end of the bibliography indicates the designated course(s) of each resource.

Note: In the annotations, Common Curriculum Framework is used to refer to *The Common Curriculum Framework for K–12 Mathematics Grade 10 to Grade 12: Western Canadian Protocol for Collaboration in Basic Education.*

Alternate Format(s)

Some of the WCP approved resources are or may be available in alternate formats to address the needs of students who are visually impaired or print disabled. This information is included in the annotations.

Pricing Information

The prices appearing in this document represent the estimated WCP prices to schools and should be firm until August 31, 2000.

These prices should be used as a guideline for purchase planning. They are applicable to all six participating jurisdictions (four provinces and two territories). The final selling prices for these resources may vary slightly in jurisdictions with book bureaus, depending upon jurisdictional negotiations. Confirmation of pricing should be obtained directly from your jurisdictional book bureau or redistribution centre, if applicable.

Resource Category

All learning and teaching resources included in this annotated bibliography were approved by the Western Assistant Deputy Ministers' Steering Committee and designated as WCP Key Resources for the Common Curriculum Framework.

Definitions

Fidelity is the degree to which the learning or teaching resource addresses the general and specific outcomes in the Common Curriculum Framework.

WCP Key Resources are high quality learning and teaching resources that best address the philosophy and content of the outcomes embodied in the Common Curriculum Framework. These include resources in a variety of media and formats, with the following characteristics:

- *Breadth* identifies learning resources with the highest possible level of fidelity with the general and specific outcomes published for a course.
- *Depth* identifies learning resources that address a limited range of general and specific outcomes for a cluster or set of clusters, but provide an especially effective learning experience for students.
- *Breadth and Depth* identifies comprehensive learning resources that provide both the *breadth* and *depth* dimensions for a particular course.
- *Teacher* identifies resources that assist teachers with the implementation of the Common Curriculum Framework and any courses derived from it.

Criteria for the Selection of Learning and Teaching Resources

Resources in this annotated bibliography were selected according to the following criteria:

- *Content and Curriculum Fit* includes how effectively a learning or teaching resource supports any given learning outcome within a strand or substrand and meets student needs.

- *Instructional Design* includes the organization and presentation techniques; the methods used to introduce, develop and summarize concepts; the vocabulary level of the resource; and the suitability to student learning styles or to special audiences.

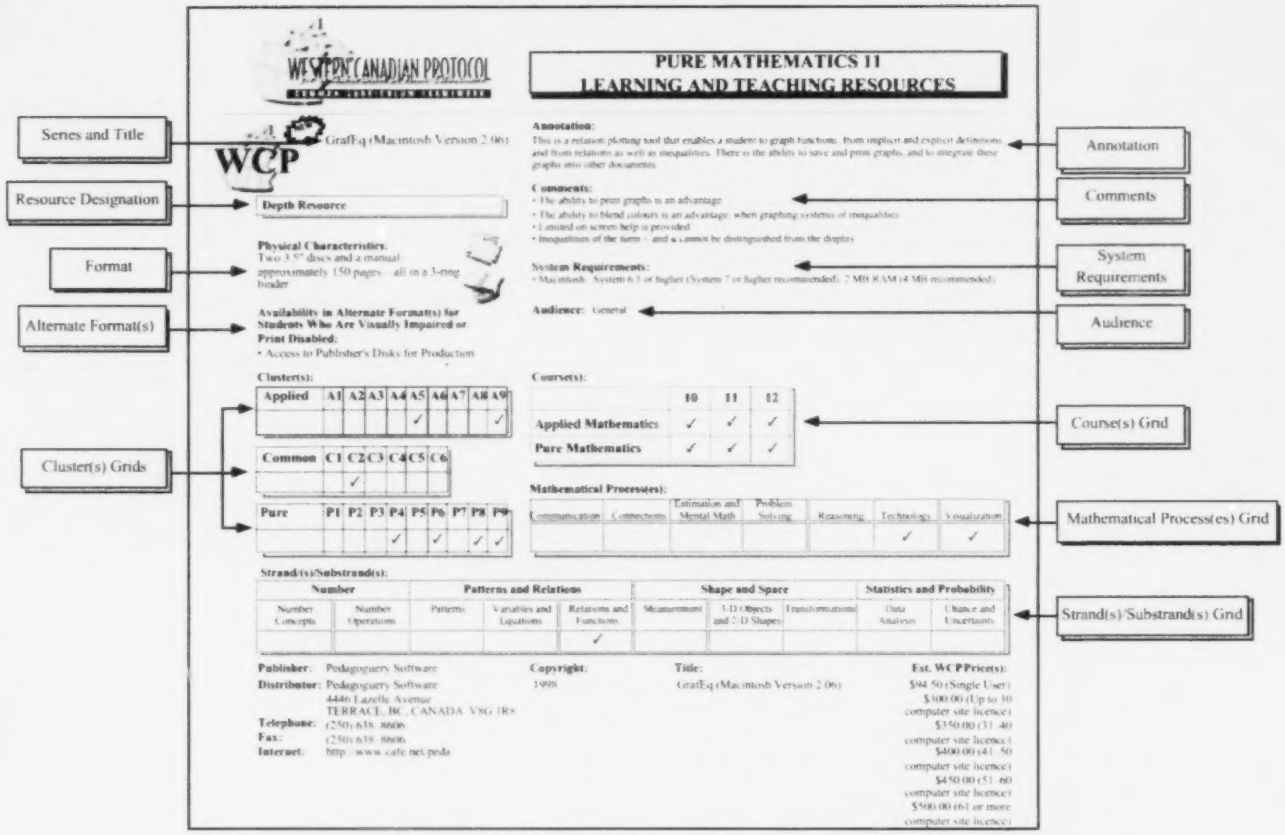
- *Technical Design* includes binding, type of print, quality of illustrations, durability and format. For software, such factors as hardware requirements, ease of navigation and robustness of programming are considered. For multimedia resources, such factors as pacing, quality of pictures/sound, user friendliness, use of special features for emphasis and interactivity are considered.

- *Social Considerations* includes screening for social concerns.

When selecting learning and teaching resources from this list, consideration should be given to how the resources meet the learning needs of students and to the perspectives of the local community.

Information on a resource may be obtained from the descriptions in this bibliography, from the distributor, from published reviews or colleagues, and from an examination of the resource.

SAMPLE ANNOTATION


Series and Title
Resource Designation
Format
Alternate Format(s)
Cluster(s) Grids
Annotation
Comments
System Requirements
Audience
Course(s) Grid
Mathematical Process(es) Grid
Strand(s)/Substrand(s) Grid
WESTERN CANADIAN PROTOCOL
PURE MATHEMATICS 11
LEARNING AND TEACHING RESOURCES
WCP
GrafEq (Macintosh Version 2.06)
Depth Resource
Physical Characteristics:
Two 3.5" discs and a manual approximately 150 pages - all in a 3-ring binder
Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:
• Access to Publisher's Disks for Production
Annotation:
Comments:
• The ability to print graphs is an advantage.
• The ability to blend colours is an advantage when graphing systems of inequalities.
• Limited on screen help is provided.
• Inequalities of the form ≤ and ≥ cannot be distinguished from the graphs.
System Requirements:
• Macintosh System 6.5 or higher (System 7 or higher recommended); 2 MB RAM (4 MB recommended)
Audience: General
Cluster(s):
Applied A1 A2 A3 A4 A5 A6 A7 A8 A9
Common C1 C2 C3 C4 C5 C6
Pure P1 P2 P3 P4 P5 P6 P7 P8 P9
Course(s):
10 11 12
Applied Mathematics ✓ ✓ ✓
Pure Mathematics ✓ ✓ ✓
Mathematical Process(es):
Communication Connections Estimation and Mental Math Problem Solving Reasoning Technology Visualization
Strand(s)/Substrand(s):
Number: Number Concepts, Number Operations
Patterns and Relations: Patterns, Variables and Equations, Relations and Functions
Shape and Space: Measurement, 3-D Objects and 2-D Shapes, Transformations
Statistics and Probability: Data Analysis, Chance and Uncertainty
Publisher: Pedagoguery Software
Distributor: Pedagoguery Software
4446 Lazelle Avenue
TERRACE, BC, CANADA V8G 1R8
Telephone: (250) 638-8606
Fax: (250) 638-8606
Internet: http://www.cafe.net/peda
Copyright: 1998
Title: GrafEq (Macintosh Version 2.06)
Est. WCP Price(s):
$94.50 (Single User)
$300.00 (Up to 30 computer site licence)
$350.00 (31-40 computer site licence)
$400.00 (41-50 computer site licence)
$450.00 (51-60 computer site licence)
$500.00 (61 or more computer site licence)

- *Series and Title:* series names are indicated by italics.
  - The "New" identifies what is new for 1999. It may be a new resource or a new component in a multicomponent resource.
- *Resource Designation:* indicates breadth, depth, breadth and depth, or teacher resource.
- *Format:* is represented by an icon, such as:

CD-ROM

Kit

Print

Software

- *Alternate Format(s):* indicates which resources are or could be available in alternate formats for students who are visually impaired or print disabled.
- *Cluster(s) Grids:* identify the cluster(s) of outcomes that are addressed in the resource.
- *Annotation:* provides an overview of the resource.
- *Comments:* provide additional information about the resource.
- *Cautions:* alert teachers to potentially sensitive issues / community concerns, or concerns about curriculum fit.
- *System Requirements:* specify the type of hardware required to run the software, and any other system information.
- *Audience:*
  - General: the majority of students.
  - Learning Disabled (LD): students who have difficulty in processing and understanding spoken, written or visual information.
  - Gifted: students who give evidence of high performance capability in areas such as intellect, creativity, or specific academic disciplines.
- *Course(s) Grid:* identifies the course(s) for which the resource is most suitable.
- *Mathematical Process(es) Grid:* identifies those processes students will use when working through the activities provided in the resource.
- *Strand(s)/Substrand(s) Grid:* allows teachers to see, readily, the fit between the Common Curriculum Framework strands/substrands and the outcomes covered in the resource.

BEST COPY AVAILABLE

APPLIED MATHEMATICS 10
LEARNING AND TEACHING RESOURCES

Addison-Wesley Applied Mathematics (Western Canadian Edition)
- Applied Mathematics 10: Source Book
- Applied Mathematics 10: Project Book

Annotation:

• *Source Book*

The source book has seven chapters that relate mathematical content to topics from the Common Curriculum Framework strands. Each chapter contains an overview that describes for students what mathematics they will be learning. A chapter project, usually requiring research, and a hands-on activity are introduced early in each chapter and revisited throughout the chapter. A series of tutorials is used to develop specific mathematical concepts. The typical tutorial consists of a section for practising prior skills, one or more investigations, exercises, and sections for discussing and communicating ideas. An inquiry approach is used to discover concepts in the development of the outcomes. Applications and problem-solving questions use real-life examples. Major examples that incorporate graphing calculators and computer software occur throughout the resource. A chain link icon is used in the source book to identify links to projects in the project book and to resources in the source book. Each chapter ends with a "Consolidating Your Skills" section that consists of an activity, review problems and a summary of the chapter project that contains illustrations of actual student work. Resources at the end of the source book include utilities, a student reference, answers and an index.

• *Project Book*

This resource consists of 20 projects for students, in addition to the chapter projects in the source book. The projects provide an opportunity to apply mathematics in a new context. Each project consists of several components: an outline of the purpose, a materials list, background information, a link to the required skills developed in the student source book, an exploration of the basic mathematical concepts underlying the project application, suggestions for presenting the project results, and a description of related career opportunities. The projects are open-ended and provide opportunities for problem solving, multiple strategies and group work.

Breadth Resource

Author(s):
Alexander, R. et al.

Physical Characteristics:
- Source Book–464 pages, hardcover
- Project Book–100 pages, softcover

Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:
- Access to Publisher's Disks for Production

Comments:
- In order to cover all of the outcomes for Applied Mathematics 10, derived from the Common Curriculum Framework, it is essential that the particular projects noted in the project book are completed by students.

Cautions:
- References are made to specific Internet web sites, including one mathematics site being maintained by Addison-Wesley Longman Pearson Education. **These web sites, including the Addison-Wesley Longman Pearson Education site, are not approved. Teachers, for their own protection, should review the current status of the web sites, including the documents identified in the links, to ensure that the sites contain accurate information and information that meets the criterion of social considerations.**

Audience: General

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
	✓	✓							
Common	C1	C2	C3	C4	C5	C6			
	✓	✓	✓						
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9

Course(s):

	10	11	12
Applied Mathematics	✓		
Pure Mathematics			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	N/A	N/A	✓	✓	✓	N/A	✓	N/A

Publisher: Addison Wesley Longman Ltd.
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: **ISBN:**
1999 0201395851
1999 020139586X

Component Titles:
- Applied Mathematics 10: Source Book
- Applied Mathematics 10: Project Book

Est. WCP Price(s):
$55.00 (Source Book and Project Book Package)

BEST COPY AVAILABLE

WCP NEW NEW

Balanced Assessment for the Mathematics Curriculum (High School)

- Balanced Assessment: High School Assessment: Package 1
- Balanced Assessment: Advanced High School Assessment: Package 1

Teacher Resource

Author(s):
MacDonell, A.; Anderson, C. (eds.)

Physical Characteristics:

- Balanced Assessment: High School Assessment: Package 1–215 pages, softcover
- Balanced Assessment: Advanced High School Assessment: Package 1–205 pages, softcover

Annotation:
These books present an alternative approach to assessment, through projects that integrate several of the WCP outcomes at once. The books are most suitable for use in Grade 10 mathematics classes. Projects include objectives, teacher notes, student handouts and examples of student work. Teacher notes include rubrics that make it easier to mark each of the projects.

Comments:
- These resources use rubrics as an evaluation strategy.
- These resources will give teachers some good ideas on how to address the question: "How should we mark projects in Math?"
- These resources provide for an alternative assessment of outcomes—done through projects, not tests.

Audience: Teacher

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
	✓	✓							

Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**
	✓	✓				

Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**

Course(s):

	10	11	12
Applied Mathematics	✓		
Pure Mathematics	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visual
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		**Patterns and Relations**			**Shape and Space**			**Statistics and Probability**	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓	✓	✓		✓	✓

Publisher: Dale Seymour Publications
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	**ISBN:**	**Component Titles:**	**Est. WCP Price(s):**
1999	076900069X	• Balanced Assessment: High School Assessment: Package 1	$44.09
1999	076900072X	• Balanced Assessment: Advanced High School Assessment: Package 1	$44.09

APPLIED MATHEMATICS 10
LEARNING AND TEACHING RESOURCES

WCP

The Geometer's Sketchpad

- The Geometer's Sketchpad (Macintosh Version 3)
- The Geometer's Sketchpad (Windows Version 3.03)

NEW

Annotation:
This resource is designed as a tool for teaching and exploring geometrical concepts. It allows students to manipulate geometrical figures with a hands-on approach. The sketchpad models geometry in two linked views. Sketches depict concrete geometry and emphasize spatial reasoning, while scripts describe constructions verbally and abstractly. The program allows for the construction, labelling, measurement and manipulation of any geometric figure, as well as the exploration of geometry concepts taught in Grade 7 through Grade 11. For high school, the primary uses are in Pure Mathematics 10 and 11, although the program can be adapted to solve design and layout problems in Applied Mathematics 10 and 11. The user guide and reference manual provide adequate instruction for learning to use the program. The teaching notes and sample activities provide suggestions for classroom use. Several sample investigations, explorations, demonstrations and construction activities on a wide range of geometry topics are included.

Depth Resource

Physical Characteristics:

- Macintosh Version: Three 3.5" discs; one binder with User Guide and Reference Manual, 242 pages, softcover; Teaching Notes, 78 pages; Macintosh Quick Reference; one videocassette
- Windows Version: Two 3.5" discs; one binder with User Guide and Reference Manual, 240 pages, softcover; Teaching Notes, 78 pages; Windows Quick Reference; one videocassette

Comments:
- This resource can have greater applications as the user becomes more familiar with the program.
- The videocassette supports both Macintosh and Windows.
- The system defaults to inches, but it can be set to centimetres.
- The demonstration version allows users to produce sketches, but these sketches cannot be saved, printed, or exported to another document.
- Some of the instructions in the reference manual are difficult for the novice user to follow.

System Requirements:
- Macintosh: minimum of a Macintosh Plus, with 1 MB RAM and System 6 or higher. A video supplied with the Windows version supports both Macintosh and Windows.
- Windows 3.1: Windows 3.1 in enhanced mode, 386/33 MHz, 4MB RAM, hard drive. The video supports both Macintosh and Windows versions.
- Windows 95: 486/50 MHz (Pentium recommended), 8MB RAM, hard drive. The video supports both Macintosh and Windows versions.

Audience: General

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
	✓		✓						
Common	C1	C2	C3	C4	C5	C6			
	✓				✓				
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
					✓				

Course(s):

	10	11	12
Applied Mathematics	✓	✓	
Pure Mathematics	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

Publisher: Spectrum Educational Supplies Ltd.
Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600, (905) 841-0600
Fax: (800) 668-0602, (905) 727-6265
Internet: http://www.spectrumed.com

Copyright:
1995

1995

Component Titles:	Est. WCP Price(s):
• The Geometer's Sketchpad (Macintosh Version 3)	$274.95
• The Geometer's Sketchpad (Windows Version 3.03)	$274.95

BEST COPY AVAILABLE

NEW WCP

GrafEq (Macintosh Version 2.06)

Depth Resource

Physical Characteristics:
Two 3.5" discs and a manual—approximately 150 pages—all in a 3-ring binder

Annotation:
This is a relation plotting tool that enables a student to graph functions, from implicit and explicit definitions, and from relations as well as inequalities. There is the ability to save and print graphs, and to integrate these graphs into other documents.

Comments:
- The ability to print graphs is an advantage.
- The ability to blend colours is an advantage, when graphing systems of inequalities.
- Limited on screen help is provided.
- Inequalities of the form < and ≤ cannot be distinguished from the display.

System Requirements:
- Macintosh. System 6.5 or higher (System 7 or higher recommended), 2 MB RAM (4 MB recommended).

Audience: General

Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:
- Access to Publisher's Disks for Production

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
					✓				✓

Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**
		✓				

Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**
				✓		✓		✓	✓

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
				✓					

Publisher: Pedagoguery Software
Distributor: Pedagoguery Software
4446 Lazelle Avenue
TERRACE, BC, CANADA V8G 1R8
Telephone: (250) 638-8606
Fax: (250) 638-8606
Internet: http://www.cafe.net/peda

Copyright:
1998

Title:
GrafEq (Macintosh Version 2.06)

Est. WCP Price(s):
$94.50 (Single User)
$300.00 (Up to 30 computer site licence)
$350.00 (31–40 computer site licence)
$400.00 (41–50 computer site licence)
$450.00 (51–60 computer site licence)
$500.00 (61 or more computer site licence)

APPLIED MATHEMATICS 10
LEARNING AND TEACHING RESOURCES

NEW

Explorations Series

WCP Graphing Calculator Activities for Enriching Middle School Mathematics

Annotation:
This resource is a collection of twelve activities using the TI-80, -82 and -83 graphing calculators. Activities require students to gather and organize data and explain their understanding of processes. Instructions for the use of the calculator accompany every step. Activities address outcomes in the Patterns and Relations, and Statistics and Probability strands of the Common Curriculum Framework. Most activities are related to Applied Mathematics 10.

Teacher Resource

Audience: Teacher

Author(s):
Browning, C.A.; Channell, D.E.

Physical Characteristics:
142 pages, softcover

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9

Common	C1	C2	C3	C4	C5	C6
		✓				

Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9

Course(s):

	10	11	12
Applied Mathematics	✓		
Pure Mathematics	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		**Patterns and Relations**			**Shape and Space**			**Statistics and Probability**	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
			✓	✓				✓	✓

Publisher: Texas Instruments Incorporated
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1997
ISBN: 1886309159
Title: Graphing Calculator Activities for Enriching Middle School Mathematics
Est. WCP Price(s): $24.48

WCP

Green Globs & Graphing Equations

NEW • Green Globs & Graphing Equations (Macintosh Version 2.3)

NEW • Green Globs & Graphing Equations (Windows Version 2.3)

Depth Resource

Physical Characteristics:

- Macintosh Version–One 3.5" disc and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder
- Windows Version–One 3.5" disc and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder

Annotation:
This resource graphs different forms of linear, quadratic, polynomial and trigonometric relations. A second program provides a graph and requires the student to enter the equation. There are also two games that act as motivational tools. Five graphs can be displayed simultaneously. The resource is user-friendly.

Comments:
- A teacher's guide accompanies the disc and provides ideas and worksheets.
- Natural log is the only logarithm that can be graphed, and $y = e^x$ is the only exponential function that can be graphed.
- Asymptotes are not shown.
- Intercepts are approximations.

System Requirements:
- Macintosh: System 6.0.5 or higher (System 7 recommended), 1 MB RAM.
- Windows 3.1: Windows 3.1, 486/25 MHz or better, 2 MB RAM; 256 colour monitor.
- Windows 95: 486DX/50 MHz or higher (Pentium recommended), 4 MB RAM, 256 colour monitor.

Audience: General

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**			
	✓	✓							
Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**
				✓				✓	✓

Course(s):

	10	11	12
Applied Mathematics	✓		
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		**Patterns and Relations**			**Shape and Space**			**Statistics and Probability**	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
			✓	✓		✓	✓		

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 ; (416) 293-8464
Fax: (416) 293-0846
Internet: http://www.cornerstone.gagepub.ca

Copyright:
1996
1997

Component Titles:	**Est. WCP Price(s):**
• Green Globs & Graphing Equations (Macintosh Version 2.3)	$129.95
• Green Globs & Graphing Equations (Windows Version 2.3)	$129.95

BEST COPY AVAILABLE

NEW WCP

An Introduction to the TI-82 Graphing Calculator

Teacher Resource

Author(s):
Govatos, M.

Physical Characteristics:
48 pages, softcover

Annotation:
This resource gives clear examples and steps for using the TI-82 graphing calculator in a variety of areas. It is a teacher resource of blackline masters that can be reproduced for student use or reference.

Comments:
- The resource can be used with the TI-83 graphing calculator as well.
- There is some use of imperial units (p. 40).

Audience: Teacher

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓		✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

Publisher: Frank Schaffer Publications Inc.
Distributor: Frank Schaffer Publications Inc.
23740 Hawthorne Boulevard
TORRANCE, CA, USA 90505
Telephone: (800) 609-1735
Fax: (800) 837-7260 ; (310) 794-5468
Internet: http://www.frankschaffer.com/frntpage.html

Copyright: 1998
ISBN: 0768200067
Title: An Introduction to the TI-82 Graphing Calculator
Est. WCP Price(s): $18.95 (US)

APPLIED MATHEMATICS 10
LEARNING AND TEACHING RESOURCES

NEW WCP

Explorations Series

Modeling Motion: High School Math Activities with the CBR

Annotation:
This resource includes investigation activities that use the calculator-based ranger (CBR) to obtain data from physical phenomena. Using a TI-82 or TI-83 graphing calculator, students obtain a mathematical equation to describe the physical event(s). Activities are well-suited to specific outcomes. Topics include arithmetic and geometric growth, systems of linear equations in two variables, quadratic functions, and exponential functions. The resource provides practice data to enable students to complete the investigations without a CBR, if necessary.

Depth Resource

Comments:
- The instructions are only for use with a TI-82 or TI-83 graphing calculator.
- The intended scope of instruction requires a CBR.

Author(s):
Antinone, L.; Gough, S.

Audience: General

Physical Characteristics:
114 pages, softcover

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**			
		✓			✓				
Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**
		✓				✓			

Course(s):

	10	11	12
Applied Mathematics	✓	✓	
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		**Patterns and Relations**			**Shape and Space**			**Statistics and Probability**	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

Publisher: Texas Instruments Incorporated
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1997
ISBN: 1886309140
Title: Modeling Motion: High School Math Activities with the CBR
Est. WCP Price(s): $16.83

APPLIED MATHEMATICS 10
LEARNING AND TEACHING RESOURCES

NEW WCP *Explorations Series*
Statistics Handbook for the TI-83

Annotation:
This resource gives detailed instructions on the use of a TI-83 graphing calculator in statistics and probability. It uses real-world applications to illustrate the technical steps taken to obtain necessary statistical information. The book contains an expansion of the information that would be found in a user's manual. There are notes to teachers with suggestions for the classroom. The resource covers material taught throughout the Statistics and Probability strand for grades 10, 11 and 12.

Teacher Resource

Audience: Teacher

Author(s):
Morgan, L.

Physical Characteristics:
157 pages, softcover

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓		✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	✓

Publisher: Texas Instruments Incorporated
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1997
ISBN: 1886309078
Title: Statistics Handbook for the TI-83
Est. WCP Price(s): $23.18

APPLIED MATHEMATICS 10
LEARNING AND TEACHING RESOURCES

NEW WCP

Explorations Series
Using the TI-86 in Collegiate Mathematics: A Tutorial

Teacher Resource

Author(s):
Dodd, F.; Cruthirds, J.

Physical Characteristics:
177 pages, softcover

Annotation:
This resource gives instruction in the use of the TI-86 graphing calculator to perform matrix and statistics operations, to graph functions, and to solve systems of equations.

Comments:
- About 50% of this resource is extraneous to the WCP.

Audience: Teacher

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓		✓	✓					

Publisher: Texas Instruments Incorporated
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1997
ISBN: 1886309116
Title: Using the TI-86 in Collegiate Mathematics: A Tutorial
Est. WCP Price(s): $22.44

NEW WCP A Visual Approach to Algebra

Annotation:
This is a supplementary activity book for clusters C1 and C2. An investigative approach to learning is used to introduce concepts related to the relationships between such things as graphing, scale, data and algebra. This resource can be used as an introduction or extension to many of the outcomes in clusters C1 and C2. Student activity worksheets and teacher note pages are given for all activities. The resource includes the use of a graphing calculator for various activities.

Teacher Resource

Author(s):
Van Dyke, F.

Physical Characteristics:
151 pages, softcover

Comments:
- The activities could be extended easily to meet outcomes related to function notation, domain and range, direct variation, midpoint, and irrational number representation.
- The imperial system is used throughout the resource for problem-solving situations.
- The activities are repetitive; teachers would not use all of them, as there are many activities that meet a single outcome.

Audience: General/Gifted/LD (Mild)

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**			
	✓	✓							
Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**

Course(s):

	10	11	12
Applied Mathematics	✓		
Pure Mathematics	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓					

Publisher: Dale Seymour Publications
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1998	1572324414	A Visual Approach to Algebra	$20.92

BEST COPY AVAILABLE

APPLIED MATHEMATICS 11
LEARNING AND TEACHING RESOURCES

WCP NEW

Addison-Wesley Mathematics 11 (Western Canadian Edition)

• Template and Data Kit (Macintosh/Windows Version 1.0)

Depth Resource

Author(s):
Alexander, R.; Kelly, B.

Physical Characteristics:
• Template and Data Kit–Teacher's Guide—152 pages, coilbound—and a CD-ROM (for ClarisWorks, Macintosh 2.0, Windows 1.0, Microsoft Works 3.0, Microsoft Office 97 and Windows 95)

Annotation:
• *Template and Data Kit*
This resource includes five extensive databases—hockey greats, transportation, aircraft, movies and real estate; templates for the spreadsheet activities found in the student text; and a teacher's guide. The teacher's guide contains spreadsheet and database tutorials, additional technology activities, and teaching notes and answers. The activities address a wide variety of outcomes.

System Requirements:
Template and Data Kit
• Macintosh: System 6.0.5 or higher, 4 MB RAM, mouse, ClarisWorks.
• Windows 3.1: 386DX/33 MHz minimum, 4 MB RAM (8 MB recommended), either Microsoft Works or ClarisWorks. Windows 95 recommended.
• Windows 95: 486/50 MHz (Pentium recommended), 8 MB RAM (16 MB recommended), mouse, either ClarisWorks, Microsoft Works or Microsoft Excel/Access.

Audience: General

Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:
• Access to Publisher's Disks for Production

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**			
				✓	✓				
Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**
			✓	✓	✓				

Course(s):

	10	11	12
Applied Mathematics		✓	
Pure Mathematics			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓	✓	✓	✓	✓	✓			

Publisher: Addison-Wesley Longman Ltd.
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1998
ISBN: 0201395495

Component Titles:
• Template and Data Kit (Macintosh/Windows Version 1.0)

Est. WCP Price(s):
$135.15

WCP

The Geometer's Sketchpad

- The Geometer's Sketchpad (Macintosh Version 3)
- The Geometer's Sketchpad (Windows Version 3.03)

NEW

Depth Resource

Physical Characteristics:

- Macintosh Version–Three 3.5" discs; one binder with User Guide and Reference Manual, 242 pages, softcover; Teaching Notes, 78 pages; Macintosh Quick Reference; one videocassette
- Windows Version–Two 3.5" discs; one binder with User Guide and Reference Manual, 240 pages, softcover; Teaching Notes, 78 pages; Windows Quick Reference; one videocassette

Annotation:

This resource is designed as a tool for teaching and exploring geometrical concepts. It allows students to manipulate geometrical figures with a hands-on approach. The sketchpad models geometry in two linked views. Sketches depict concrete geometry and emphasize spatial reasoning, while scripts describe constructions verbally and abstractly. The program allows for the construction, labelling, measurement and manipulation of any geometric figure, as well as the exploration of geometry concepts taught in Grade 7 through Grade 11. For high school, the primary uses are in Pure Mathematics 10 and 11, although the program can be adapted to solve design and layout problems in Applied Mathematics 10 and 11. The user guide and reference manual provide adequate instruction for learning to use the program. The teaching notes and sample activities provide suggestions for classroom use. Several sample investigations, explorations, demonstrations and construction activities on a wide range of geometry topics are included.

Comments:

- This resource can have greater applications as the user becomes more familiar with the program.
- The videocassette supports both Macintosh and Windows.
- The system defaults to inches, but it can be set to centimetres.
- The demonstration version allows users to produce sketches, but these sketches cannot be saved, printed, or exported to another document.
- Some of the instructions in the reference manual are difficult for the novice user to follow.

System Requirements:

- Macintosh: minimum of a Macintosh Plus, with 1 MB RAM and System 6 or higher. A video supplied with the Windows version supports both Macintosh and Windows.
- Windows 3.1: Windows 3.1 in enhanced mode, 386/33 MHz, 4MB RAM, hard drive. The video supports both Macintosh and Windows versions.
- Windows 95: 486/50 MHz (Pentium recommended), 8MB RAM, hard drive. The video supports both Macintosh and Windows versions.

Audience: General

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
	✓		✓						
Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**			
	✓				✓				
Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**
					✓				

Course(s):

	10	11	12
Applied Mathematics	✓	✓	
Pure Mathematics	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

Publisher: Spectrum Educational Supplies Ltd.
Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600; (905) 841-0600
Fax: (800) 668-0602; (905) 727-6265
Internet: http://www.spectrumed.com

Copyright:
1995
1995

Component Titles:	Est. WCP Price(s):
• The Geometer's Sketchpad (Macintosh Version 3)	$274.95
• The Geometer's Sketchpad (Windows Version 3.03)	$274.95

APPLIED MATHEMATICS 11
LEARNING AND TEACHING RESOURCES

NEW WCP

GrafEq (Macintosh Version 2.06)

Depth Resource

Physical Characteristics:
Two 3.5" discs and a manual—approximately 150 pages—all in a 3-ring binder

Annotation:
This is a relation plotting tool that enables a student to graph functions, from implicit and explicit definitions, and from relations as well as inequalities. There is the ability to save and print graphs, and to integrate these graphs into other documents.

Comments:
- The ability to print graphs is an advantage.
- The ability to blend colours is an advantage, when graphing systems of inequalities.
- Limited on screen help is provided.
- Inequalities of the form < and ≤ cannot be distinguished from the display.

System Requirements:
- Macintosh: System 6.5 or higher (System 7 or higher recommended), 2 MB RAM (4 MB recommended).

Audience: General

Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:
- Access to Publisher's Disks for Production

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
					✓				✓
Common	C1	C2	C3	C4	C5	C6			
		✓							
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
				✓		✓		✓	✓

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
				✓					

Publisher: Pedagoguery Software
Distributor: Pedagoguery Software
4446 Lazelle Avenue
TERRACE, BC, CANADA V8G 1R8
Telephone: (250) 638-8606
Fax: (250) 638-8606
Internet: http://www.cafe.net/peda

Copyright:
1998

Title:
GrafEq (Macintosh Version 2.06)

Est. WCP Price(s):
$94.50 (Single User)
$300.00 (Up to 30 computer site licence)
$350.00 (31-40 computer site licence)
$400.00 (41-50 computer site licence)
$450.00 (51-60 computer site licence)
$500.00 (61 or more computer site licence)

BEST COPY AVAILABLE

NEW WCP

An Introduction to the TI-82 Graphing Calculator

Teacher Resource

Author(s):
Govatos, M.

Physical Characteristics:
48 pages, softcover

Annotation:
This resource gives clear examples and steps for using the TI-82 graphing calculator in a variety of areas. It is a teacher resource of blackline masters that can be reproduced for student use or reference.

Comments:
- The resource can be used with the TI-83 graphing calculator as well.
- There is some use of imperial units (p. 40).

Audience: Teacher

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**			
Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓		✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Proba	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

Publisher: Frank Schaffer Publications Inc.
Distributor: Frank Schaffer Publications Inc.
23740 Hawthorne Boulevard
TORRANCE, CA, USA 90505
Telephone: (800) 609-1735
Fax: (800) 837-7260 ; (310) 794-5468
Internet: http://www.frankschaffer.com/frntpage.html

Copyright: 1998
ISBN: 0768200067
Title: An Introduction to the TI-82 Graphing Calculator
Est. WCP Price(s): $18.95 (US)

NEW

Explorations Series

Modeling Motion: High School Math Activities with the CBR

Depth Resource

Author(s):
Antinone, L.; Gough, S.

Physical Characteristics:
114 pages, softcover

Annotation:
This resource includes investigation activities that use the calculator-based ranger (CBR) to obtain data from physical phenomena. Using a TI-82 or TI-83 graphing calculator, students obtain a mathematical equation to describe the physical event(s). Activities are well-suited to specific outcomes. Topics include arithmetic and geometric growth, systems of linear equations in two variables, quadratic functions, and exponential functions. The resource provides practice data to enable students to complete the investigations without a CBR, if necessary.

Comments:
- The instructions are only for use with a TI-82 or TI-83 graphing calculator.
- The intended scope of instruction requires a CBR.

Audience: General

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
		✓			✓				
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
		✓				✓			

Course(s):

	10	11	12
Applied Mathematics	✓	✓	
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

Publisher: Texas Instruments Incorporated
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1997

ISBN: 1886309140

Title: Modeling Motion: High School Math Activities with the CBR

Est. WCP Price(s): $16.83

APPLIED MATHEMATICS 11
LEARNING AND TEACHING RESOURCES

NEW WCP

Explorations Series
Statistics Handbook for the TI-83

Annotation:
This resource gives detailed instructions on the use of a TI-83 graphing calculator in statistics and probability. It uses real-world applications to illustrate the technical steps taken to obtain necessary statistical information. The book contains an expansion of the information that would be found in a user's manual. There are notes to teachers with suggestions for the classroom. The resource covers material taught throughout the Statistics and Probability strand for grades 10, 11 and 12.

Teacher Resource

Author(s):
Morgan, L.

Audience: Teacher

Physical Characteristics:
157 pages, softcover

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓		✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Proba	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	✓

Publisher: Texas Instruments Incorporated
Distributor: Addison Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1997
ISBN: 1886309078
Title: Statistics Handbook for the TI-83
Est. WCP Price(s): $23.18

NEW WCP

Explorations Series
Using the TI-86 in Collegiate Mathematics: A Tutorial

Annotation:
This resource gives instruction in the use of the TI-86 graphing calculator to perform matrix and statistics operations, to graph functions, and to solve systems of equations.

Comments:
- About 50% of this resource is extraneous to the WCP.

Teacher Resource

Author(s):
Dodd, F.; Cruthirds, J.

Audience: Teacher

Physical Characteristics:
177 pages, softcover

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓		✓	✓					

Publisher: Texas Instruments Incorporated
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1997
ISBN: 1886309116
Title: Using the TI-86 in Collegiate Mathematics: A Tutorial
Est. WCP Price(s): $22.44

NEW

WCP Exploring Advanced Algebra with the TI-83

Annotation:
This resource contains exercises and investigations that supplement the following topics: sequences, fractals, combinatorics, probability, linear systems, matrices and linear programming.

Depth Resource

Audience: General

Author(s):
Kelly, B.

Physical Characteristics:
80 pages, coilbound

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
						✓			

Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**

Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**
		✓					✓		

Course(s):

	10	11	12
Applied Mathematics			✓
Pure Mathematics	✓		✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	

Strand(s)/Substrand(s):

Number		**Patterns and Relations**			**Shape and Space**			**Statistics and Probability**	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓						✓

Publisher: Addison-Wesley Longman Ltd.
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	**ISBN:**	**Title:**	**Est. WCP Price(s):**
1998	1895997100	Exploring Advanced Algebra with the TI-83	$15.71

BEST COPY AVAILABLE

NEW WCP

GrafEq (Macintosh Version 2.06)

Depth Resource

Physical Characteristics:
Two 3.5" discs and a manual—approximately 150 pages—all in a 3-ring binder

Annotation:
This is a relation plotting tool that enables a student to graph functions, from implicit and explicit definitions, and from relations as well as inequalities. There is the ability to save and print graphs, and to integrate these graphs into other documents.

Comments:
- The ability to print graphs is an advantage.
- The ability to blend colours is an advantage, when graphing systems of inequalities.
- Limited on screen help is provided.
- Inequalities of the form < and ≤ cannot be distinguished from the display.

System Requirements:
- Macintosh: System 6.5 or higher (System 7 or higher recommended), 2 MB RAM (4 MB recommended)

Audience: General

Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:
- Access to Publisher's Disks for Production

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
					✓				✓
Common	C1	C2	C3	C4	C5	C6			
		✓							
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
				✓		✓		✓	✓

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
				✓					

Publisher: Pedagoguery Software
Distributor: Pedagoguery Software
4446 Lazelle Avenue
TERRACE, BC, CANADA V8G 1R8
Telephone: (250) 638-8606
Fax: (250) 638-8606
Internet: http://www.cafe.net/peda

Copyright:
1998

Title:
GrafEq (Macintosh Version 2.06)

Est. WCP Price(s):
$94.50 (Single User)
$300.00 (Up to 30 computer site licence)
$350.00 (31–40 computer site licence)
$400.00 (41–50 computer site licence)
$450.00 (51–60 computer site licence)
$500.00 (61 or more computer site licence)

APPLIED MATHEMATICS 12
LEARNING AND TEACHING RESOURCES

NEW

WCP An Introduction to the TI-82 Graphing Calculator

Teacher Resource

Author(s):
Govatos, M.

Physical Characteristics:
48 pages, softcover

Annotation:
This resource gives clear examples and steps for using the TI-82 graphing calculator in a variety of areas. It is a teacher resource of blackline masters that can be reproduced for student use or reference.

Comments:
- The resource can be used with the TI-83 graphing calculator as well.
- There is some use of imperial units (p. 40).

Audience: Teacher

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓		✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

Publisher: Frank Schaffer Publications Inc.
Distributor: Frank Schaffer Publications Inc.
23740 Hawthorne Boulevard
TORRANCE, CA, USA 90505
Telephone: (800) 609-1735
Fax: (800) 837-7260 ; (310) 794-5468
Internet: http://www.frankschaffer.com/frntpage.html

Copyright: 1998
ISBN: 0768200067
Title: An Introduction to the TI-82 Graphing Calculator
Est. WCP Price(s): $18.95 (US)

APPLIED MATHEMATICS 12
LEARNING AND TEACHING RESOURCES

NEW
WCP *Secondary Math*
Secondary Math Lab Toolkit
(Macintosh / Windows Version 1.1)

Depth Resource

Physical Characteristics:
One CD-ROM and a User's Guide—128 pages, bound—all in a 3-ring binder

Annotation:
The toolkit contains graphical tools for algebra, geometry, data analysis and probability. A text editor, function editor, spreadsheet editor and matrix editor are linked. The graphs are clear and may be transformed in a variety of ways. Probability models use dice and spinners. A visual representation of algebra tiles is included.

Comments:
- Experienced users will be able to use the resource more profitably than beginners.
- There is a high level of linking among all tools within the toolkit.
- The resource provides methods of transforming relations only from within the symbolic editor, but not from graphical forms.
- The algebra tiles representation is very limited and is harder to use and less flexible than the concrete tiles.
- The tutorial materials may be insufficient for users of the toolkit.

System Requirements:
- Macintosh: minimum of a Macintosh LC II, with 12 MB RAM total and System 7.0 or higher, 256 colour 13-inch monitor, 6 MB hard disk space.
- Windows 3.1: Windows 3.1 or 3.11, 486/33 MHz or higher, 12 MB RAM, VGA 13-inch 256 colour monitor, 6 MB hard disk space.
- Windows 95: 486/50 MHz, 12 MB RAM, hard drive, VGA 13-inch 256 colour monitor, 6 MB hard disk space. The use of a Pentium processor with 16 MB RAM is recommended.

Audience: General

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
								✓	✓
Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**			
Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**
		✓		✓	✓	✓	✓	✓	✓

Course(s):

	10	11	12
Applied Mathematics			✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓	✓	✓	✓		✓	✓	✓	✓

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 ; (416) 293-8464
Fax: (416) 293-0846
Internet: http://www.cornerstone.gagepub.ca

Copyright: 1998
ISBN: 0134330528 (User's Guide)
Title: Secondary Math Lab Toolkit (Macintosh/Windows Version 1.1)
Est. WCP Price(s): $129.95

APPLIED MATHEMATICS 12
LEARNING AND TEACHING RESOURCES

NEW
WCP *Explorations Series*
Statistics Handbook for the TI-83

Annotation:
This resource gives detailed instructions on the use of a TI-83 graphing calculator in statistics and probability. It uses real-world applications to illustrate the technical steps taken to obtain necessary statistical information. The book contains an expansion of the information that would be found in a user's manual. There are notes to teachers with suggestions for the classroom. The resource covers material taught throughout the Statistics and Probability strand for grades 10, 11 and 12.

Teacher Resource

Audience: Teacher

Author(s):
Morgan, L.

Physical Characteristics:
157 pages, softcover

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9

Common	C1	C2	C3	C4	C5	C6

Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓		✓	✓

Strand(s)/Substrand(s):

Number		**Patterns and Relations**			**Shape and Space**			**Statistics and Probability**	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	✓

Publisher: Texas Instruments Incorporated
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8038; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1997
ISBN: 1886309078
Title: Statistics Handbook for the TI-83
Est. WCP Price(s): $23.18

BEST COPY AVAILABLE

APPLIED MATHEMATICS 12
LEARNING AND TEACHING RESOURCES

NEW WCP

Explorations Series
Using the TI-86 in Collegiate Mathematics: A Tutorial

Annotation:
This resource gives instruction in the use of the TI-86 graphing calculator to perform matrix and statistics operations, to graph functions, and to solve systems of equations.

Comments:
• About 50% of this resource is extraneous to the WCP.

Teacher Resource

Author(s):
Dodd, F.; Cruthirds, J.

Audience: Teacher

Physical Characteristics:
177 pages, softcover

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Proba	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓		✓	✓					

Publisher: Texas Instruments Incorporated
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1997
ISBN: 1886309116
Title: Using the TI-86 in Collegiate Mathematics: A Tutorial
Est. WCP Price(s): $22.44

PURE MATHEMATICS 10
LEARNING AND TEACHING RESOURCES

Acces: The Teacher's Database

- Acces: The Teacher's Database (Macintosh Version 3.33)
- Acces: The Teacher's Database (DOS/Windows Version 3.32)
- Canadian Math Database (Grades 8-10) (Catalog)

Teacher Resource

Physical Characteristics:

- Macintosh Version 3.33–One 3.5" Macintosh disc; Support Materials (Typesetting Guide—100 pages, coilbound; Sample Database—23 pages, paperbound; 'Extra' Database—15 pages, paperbound; Reference Manual—114 pages, coilbound)
- DOS/Windows Version 3.32–Three 3.5" DOS/Windows discs; Support Materials (Typesetting Guide—100 pages, coilbound; Sample Database—23 pages, paperbound; 'Extra' Database—15 pages, paperbound; Reference Manual—114 pages, coilbound)
- Canadian Math Database (Grades 8-10) (Catalog)–416 pages, 3-ring binder; one 3.5" disc (Macintosh Version 1.0D) and one 3.5" disc (DOS/Windows Version 1.0D)

Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:

- Access to Publisher's Disks for Production

Annotation:

This resource package is a publishing system that allows teachers to draw from a collection of thousands of items arranged in topics. Most questions are of multiple-choice format, but these can be recast in open-ended format by removing the distractors. There is a preponderance of procedural items, but there are enough conceptual and problem-solving examples to allow the teacher to build an assessment consistent with a more conceptual blueprint. The technology assumed is that of the scientific calculator rather than the graphing calculator.

Comments:

- A teacher who is experienced in entering mathematical equations into a word processing program will be able to use this resource package most effectively.

Cautions:

- The Windows setup program is not yet released; the DOS/Windows Version 3.32 must be loaded under DOS, even in Windows 3.1 and Windows 95 environments.
- Windows 3.1 installations require 32-bit extensions before they run.

System Requirements:

- Macintosh: System 7.0 or higher, 68030 processor (68040 or PowerMac recommended), 4 MB RAM (6 MB recommended).
- Windows: 486/50 MHz (Pentium recommended), disc cache set to at least 512 KB.

Audience: Teacher

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**			
	✓	✓							
Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**
	✓	✓							

Course(s):

	10	11	12
Applied Mathematics			
Pure Mathematics	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓	✓		✓		

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓				

Publisher: EducAide Software
Distributor: EducAide Software
3065 Richmond Parkway, Suite 102
RICHMOND, CA, USA 94806
Telephone: (800) 669-9405 ; (510) 222-0600
Fax: (510) 222-0165
Internet: http://www.educaide.com

Copyright:
1997
1997
1998

Component Titles:	Est. WCP Price(s):
• Acces: The Teacher's Database (Macintosh Version 3.33)	$495.00 (US)
• Acces: The Teacher's Database (DOS/Windows Version 3.32)	$595.00 (US)
• Canadian Math Database (Grades 8-10) (Catalog)	$225.00 (US)

PURE MATHEMATICS 10
LEARNING AND TEACHING RESOURCES

WCP

Addison-Wesley Mathematics 10 (Western Canadian Edition)
- Student Text
- Independent Study Guide
- Teacher's Resource Book (includes CD-ROM)
- Template and Data Kit (CD-ROM Version 1.0)

NEW
- Acces Exercise Database (Macintosh/Windows Version 1.0A)

NEW **Breadth and Depth Resource**

Author(s):
Alexander, R. et al

Physical Characteristics:

- Student Text–651 pages, hardcover
- Independent Study Guide–138 pages, softcover
- Teacher's Resource Book–Includes 11 booklets—approximately 400 pages—and one CD-ROM, in a 3-ring binder
- Template and Data Kit–Teacher's Guide, 154 pages, coilbound; and one CD-ROM (for ClarisWorks, Macintosh 2.0, Windows 1.0, Microsoft Works 3.0, Microsoft Office 97 and Windows 95)
- Acces Exercise Database–One CD-ROM and 257 pages, all in a 3-ring binder

Annotation:
The resource package closely maps the content of the Common Curriculum Framework. The framework's mathematical processes are embedded throughout the resource. A conscientious effort was employed to relate the mathematical concepts developed to real-world situations. The student text makes good use of visual presentations, and the format is consistent throughout. Icons and headings are the primary means of navigation through the student text.

This program supports the learning of mathematics in a variety of ways. Concepts and skills are presented in problem-solving contexts, and open-ended questions are designed to help students express their ideas about mathematics orally and in writing. Students are encouraged to work in small groups, where appropriate, to explore new ideas; manipulatives are used for the understanding of abstract concepts; and the use of appropriate technology is integrated throughout the text. The mathematical processes of communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization are highlighted through the use of icons in examples, explanations and activities.

- *Student Text*

The text has nine chapters that relate mathematical content to topics from the Common Curriculum Framework strands. Each chapter focuses on a connection problem, entitled "Mathematical Modelling." Relevant mathematical material either precedes the problem, or follows the problem, depending on the chapter. An inquiry approach is used to discover concepts in the development of the outcomes. Practice exercises are included. Applications and problem-solving questions use real-life examples. Major examples that incorporate graphing calculators and computer software occur throughout the resource. Further attention to the mathematical processes is found in the other components of the resource.

- *Independent Study Guide*

This resource provides students with additional examples and explanations to supplement the material in the main student resource. An introductory chapter helps the student develop efficient study skills. For the other nine chapters, which parallel the chapters of the student text, additional explanations, cross-referenced self-tests, mini-glossaries and overviews provide additional assistance to the student. Solutions to the self-tests included in the independent study guide are given at the back of the guide in short form, and in more extended form on a CD-ROM included in the teacher's resource book.

- *Teacher's Resource Book*

The teacher's resource book contains comprehensive teaching notes for each section of the student text, and blackline masters, as well as reinforcement, extension, enrichment and assessment activities. A graphing calculator handbook and reproducible graphing calculator activities are included. A CD-ROM with solutions to the student text and independent study guide is part of the teacher's resource book.

- *Template and Data Kit*

This resource includes four extensive databases—weather, helicopters, Olympic Summer Games and health; templates for the spreadsheet activities found in the student text; and a teacher's guide. The teacher's guide contains spreadsheet and database tutorials, additional technology activities, and teaching notes and answers. The activities address a wide variety of outcomes.

- *Acces Exercise Database*

This is an electronic database of over 2400 multiple-choice questions. It follows the Addison-Wesley Mathematics 10 (Western Canadian Edition) student text, section by section. It requires the Acces program. A print version of all the questions accompanies the CD-ROM.

Comments:
- The student resource attempts to incorporate the mathematical processes and the philosophy of the Common Curriculum Framework through the use of appropriate section headings and icons.
- In each of the chapters of the teacher resource there is cross-referencing of the mathematical processes to the materials being presented to the students. Emphasis given to technological solutions is most apparent in the teacher resource.
- Exercises are split into A, B and C levels. Students who only do the A exercises will not have enough exposure to the mathematical processes.
- Manipulatives, such as algebra tiles and suitable software, are necessary for using the resource effectively. These are not supplied with the resource.
- In the Acces exercise database, the multiple-choice responses can be eliminated if just the question is desired. The questions are divided into chapters and sections that mirror the student text.

Cautions:
References are made in both the student and the teacher materials to specific Internet web sites, including one mathematics site being maintained by Addison-Wesley Longman. **These web sites, including Addison-Wesley Longman's own site, are not approved. Teachers, for their own protection, should review the current status of the web sites, including the documents identified in the links, to ensure that the site contains accurate information and information that meets the criterion of social considerations.**
- In the treatment of the outcomes related to right-angled trigonometry, there is material in the student resource that relates only to the outcomes incorporated in the Common Curriculum Framework at the Grade 9 level.
- The template and data kit can only be used with ClarisWorks, Microsoft Works or Microsoft Excel/Access when used in a Windows 95 environment. In a Windows 3.1 environment, only ClarisWorks can be used.

Continued

PURE MATHEMATICS 10
LEARNING AND TEACHING RESOURCES

Continued

System Requirements:

Template and Data Kit
- Macintosh: System 6.0.5 or higher, 4 MB RAM, mouse, ClarisWorks.
- Windows 3.1: 386DX/33 MHz minimum, 4 MB RAM (8 MB recommended), either Microsoft Works or ClarisWorks. Windows 95 recommended.
- Windows 95: 486/50 MHz (Pentium recommended), 8 MB RAM (16 MB recommended), mouse, either ClarisWorks, Microsoft Works or Microsoft Excel/Access.

Acces Exercise Database
- Macintosh: System 7.1 or higher, LC III (040 25 MHz recommended), 4 MB RAM (8 MB recommended), CD drive.
- Windows 3.1: 386DX/33 MHz minimum, 4 MB RAM (8 MB recommended), either Microsoft Works or ClarisWorks. Windows 95 recommended.
- Windows 95: 486/50 MHz (Pentium recommended), 8 MB RAM (16 MB recommended), mouse, either ClarisWorks, Microsoft Works or Microsoft Excel/Access.

Audience: General

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
	✓	✓	✓						
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
	✓	✓							

Course(s):

	10	11	12
Applied Mathematics			
Pure Mathematics	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓	✓	N/A	✓	✓

Publisher: Addison-Wesley
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1998	0201346192	• Student Text	$49.95
1998	0201346206	• Independent Study Guide	$5.95
1998	0201346214	• Teacher's Resource Book (includes CD-ROM)	$119.95
1998	0201346230	• Template and Data Kit (Teacher's Guide) (CD-ROM Version 1.0)	$119.95
1999	0201512815 (pkg.)	• Acces Exercise Database (Macintosh/Windows Version 1.0A)	$126.00

WCP NEW NEW

Balanced Assessment for the Mathematics Curriculum (High School)

- Balanced Assessment: High School Assessment: Package 1
- Balanced Assessment: Advanced High School Assessment: Package 1

Teacher Resource

Author(s):
MacDonell, A.; Anderson, C. (eds.)

Physical Characteristics:

- Balanced Assessment: High School Assessment: Package 1–215 pages, softcover
- Balanced Assessment: Advanced High School Assessment: Package 1–205 pages, softcover

Annotation:
These books present an alternative approach to assessment, through projects that integrate several of the WCP outcomes at once. The books are most suitable for use in Grade 10 mathematics classes. Projects include objectives, teacher notes, student handouts and examples of student work. Teacher notes include rubrics that make it easier to mark each of the projects.

Comments:
- These resources use rubrics as an evaluation strategy.
- These resources will give teachers some good ideas on how to address the question: "How should we mark projects in Math?"
- These resources provide for an alternative assessment of outcomes—done through projects, not tests.

Audience: Teacher

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
	✓	✓							
Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**			
	✓	✓							
Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**

Course(s):

	10	11	12
Applied Mathematics	✓		
Pure Mathematics	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		**Patterns and Relations**			**Shape and Space**			**Statistics and Probability**	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓	✓	✓		✓	✓

Publisher: Dale Seymour Publications
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	**ISBN:**	**Component Titles:**	**Est. WCP Price(s):**
1999	076900069X	• Balanced Assessment: High School Assessment: Package 1	$44.09
1999	076900072X	• Balanced Assessment: Advanced High School Assessment: Package 1	$44.09

NEW

WCP Exploring Advanced Algebra with the TI-83

Annotation:
This resource contains exercises and investigations that supplement the following topics: sequences, fractals, combinatorics, probability, linear systems, matrices and linear programming.

Depth Resource

Audience: General

Author(s):
Kelly, B.

Physical Characteristics:
80 pages, coilbound

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
						✓			
Common	C1	C2	C3	C4	C5	C6			
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
		✓					✓		

Course(s):

	10	11	12
Applied Mathematics			✓
Pure Mathematics	✓		✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓						✓

Publisher: Addison-Wesley Longman Ltd.
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1998	1895997100	Exploring Advanced Algebra with the TI-83	$15.71

WCP

The Geometer's Sketchpad

- The Geometer's Sketchpad (Macintosh Version 3)
- The Geometer's Sketchpad (Windows Version 3.03)

NEW

Annotation:
This resource is designed as a tool for teaching and exploring geometrical concepts. It allows students to manipulate geometrical figures with a hands-on approach. The sketchpad models geometry in two linked views. Sketches depict concrete geometry and emphasize spatial reasoning, while scripts describe constructions verbally and abstractly. The program allows for the construction, labelling, measurement and manipulation of any geometric figure, as well as the exploration of geometry concepts taught in Grade 7 through Grade 11. For high school, the primary uses are in Pure Mathematics 10 and 11, although the program can be adapted to solve design and layout problems in Applied Mathematics 10 and 11. The user guide and reference manual provide adequate instruction for learning to use the program. The teaching notes and sample activities provide suggestions for classroom use. Several sample investigations, explorations, demonstrations and construction activities on a wide range of geometry topics are included.

Depth Resource

Physical Characteristics:
- Macintosh Version–Three 3.5" discs; one binder with User Guide and Reference Manual, 242 pages, softcover; Teaching Notes, 78 pages; Macintosh Quick Reference; one videocassette
- Windows Version–Two 3.5" discs; one binder with User Guide and Reference Manual, 240 pages, softcover; Teaching Notes, 78 pages; Windows Quick Reference; one videocassette

Comments:
- This resource can have greater applications as the user becomes more familiar with the program.
- The videocassette supports both Macintosh and Windows.
- The system defaults to inches, but it can be set to centimetres.
- The demonstration version allows users to produce sketches, but these sketches cannot be saved, printed, or exported to another document.
- Some of the instructions in the reference manual are difficult for the novice user to follow.

System Requirements:
- Macintosh: minimum of a Macintosh Plus, with 1 MB RAM and System 6 or higher. A video supplied with the Windows version supports both Macintosh and Windows.
- Windows 3.1: Windows 3.1 in enhanced mode, 386/33 MHz, 4MB RAM, hard drive. The video supports both Macintosh and Windows versions.
- Windows 95: 486/50 MHz (Pentium recommended), 8MB RAM, hard drive. The video supports both Macintosh and Windows versions.

Audience: General

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
	✓		✓						

Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**
	✓				✓	

Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**
					✓				

Course(s):

	10	11	12
Applied Mathematics	✓	✓	
Pure Mathematics	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		**Patterns and Relations**			**Shape and Space**			**Statistics and Probability**	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

Publisher: Spectrum Educational Supplies Ltd.
Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600; (905) 841-0600
Fax: (800) 668-0602; (905) 727-6265
Internet: http://www.spectrumed.com

Copyright:
1995
1995

Component Titles:	**Est. WCP Price(s):**
• The Geometer's Sketchpad (Macintosh Version 3)	$274.95
• The Geometer's Sketchpad (Windows Version 3.03)	$274.95

NEW WCP GrafEq (Macintosh Version 2.06)

Annotation:
This is a relation plotting tool that enables a student to graph functions, from implicit and explicit definitions, and from relations as well as inequalities. There is the ability to save and print graphs, and to integrate these graphs into other documents.

Comments:
- The ability to print graphs is an advantage.
- The ability to blend colours is an advantage, when graphing systems of inequalities.
- Limited on screen help is provided.
- Inequalities of the form < and ≤ cannot be distinguished from the display.

Depth Resource

Physical Characteristics:
Two 3.5" discs and a manual — approximately 150 pages — all in a 3-ring binder

System Requirements:
- Macintosh: System 6.5 or higher (System 7 or higher recommended), 2 MB RAM (4 MB recommended).

Audience: General

Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:
- Access to Publisher's Disks for Production

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
					✓				✓
Common	C1	C2	C3	C4	C5	C6			
		✓							
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
				✓		✓		✓	✓

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
				✓					

Publisher: Pedagoguery Software
Distributor: Pedagoguery Software
4446 Lazelle Avenue
TERRACE, BC, CANADA V8G 1R8
Telephone: (250) 638-8606
Fax: (250) 638-8606
Internet: http://www.cafe.net/peda

Copyright:
1998

Title:
GrafEq (Macintosh Version 2.06)

Est. WCP Price(s):
$94.50 (Single User)
$300.00 (Up to 30 computer site licence)
$350.00 (31–40 computer site licence)
$400.00 (41–50 computer site licence)
$450.00 (51–60 computer site licence)
$500.00 (61 or more computer site licence)

PURE MATHEMATICS 10
LEARNING AND TEACHING RESOURCES

NEW

Explorations Series
Graphing Calculator Activities for Enriching Middle School Mathematics

Annotation:
This resource is a collection of twelve activities using the TI-80, -82 and -83 graphing calculators. Activities require students to gather and organize data and explain their understanding of processes. Instructions for the use of the calculator accompany every step. Activities address outcomes in the Patterns and Relations, and Statistics and Probability strands of the Common Curriculum Framework. Most activities are related to Applied Mathematics 10.

Teacher Resource

Audience: Teacher

Author(s):
Browning, C.A.; Channell, D.E.

Physical Characteristics:
142 pages, softcover

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9

Common	C1	C2	C3	C4	C5	C6
		✓				

Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9

Course(s):

	10	11	12
Applied Mathematics	✓		
Pure Mathematics	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		**Patterns and Relations**			**Shape and Space**			**Statistics and Probability**	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
			✓	✓				✓	✓

Publisher: Texas Instruments Incorporated
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1997
ISBN: 1886309159
Title: Graphing Calculator Activities for Enriching Middle School Mathematics
Est. WCP Price(s): $24.48

WCP

Green Globs & Graphing Equations

NEW • Green Globs & Graphing Equations (Macintosh Version 2.3)

NEW • Green Globs & Graphing Equations (Windows Version 2.3)

Depth Resource

Physical Characteristics:
- Macintosh Version–One 3.5" disc and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder
- Windows Version–One 3.5" disc and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder

Annotation:
This resource graphs different forms of linear, quadratic, polynomial and trigonometric relations. A second program provides a graph and requires the student to enter the equation. There are also two games that act as motivational tools. Five graphs can be displayed simultaneously. The resource is user-friendly.

Comments:
- A teacher's guide accompanies the disc and provides ideas and worksheets.
- Natural log is the only logarithm that can be graphed, and $y = e^x$ is the only exponential function that can be graphed.
- Asymptotes are not shown.
- Intercepts are approximations.

System Requirements:
- Macintosh: System 6.0.5 or higher (System 7 recommended), 1 MB RAM.
- Windows 3.1: Windows 3.1, 486/25 MHz or better, 2 MB RAM; 256 colour monitor.
- Windows 95: 486DX/50 MHz or higher (Pentium recommended), 4 MB RAM, 256 colour monitor.

Audience: General

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**			
	✓	✓							
Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**
				✓				✓	✓

Course(s):

	10	11	12
Applied Mathematics	✓		
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		**Patterns and Relations**			**Shape and Space**			**Statistics and Probability**	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
			✓	✓		✓	✓		

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 ; (416) 293-8464
Fax: (416) 293-0846
Internet: http://www.cornerstone.gagepub.ca

Copyright:
1996
1997

Component Titles:	**Est. WCP Price(s):**
• Green Globs & Graphing Equations (Macintosh Version 2.3)	$129.95
• Green Globs & Graphing Equations (Windows Version 2.3)	$129.95

BEST COPY AVAILABLE

NEW WCP

An Introduction to the TI-82 Graphing Calculator

Teacher Resource

Author(s):
Govatos, M.

Physical Characteristics:
48 pages, softcover

Annotation:
This resource gives clear examples and steps for using the TI-82 graphing calculator in a variety of areas. It is a teacher resource of blackline masters that can be reproduced for student use or reference.

Comments:
- The resource can be used with the TI-83 graphing calculator as well.
- There is some use of imperial units (p. 40).

Audience: Teacher

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓		✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probab	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

Publisher: Frank Schaffer Publications Inc.
Distributor: Frank Schaffer Publications Inc.
23740 Hawthorne Boulevard
TORRANCE, CA, USA 90505
Telephone: (800) 609-1735
Fax: (800) 837-7260 ; (310) 794-5468
Internet: http://www.frankschaffer.com/fmtpage.html

Copyright: 1998
ISBN: 0768200067
Title: An Introduction to the TI-82 Graphing Calculator
Est. WCP Price(s): $18.95 (US)

WCP NEW

The Learning Equation: Mathematics 10 (Version 1.1)
• CD-ROMs 1, 2, 3

NEW • Student Refresher

NEW • Teacher's Manual

Breadth Resource
(The approval of Version 1.1 is valid until June 30, 2000 only)

Physical Characteristics:
• CD-ROMs 1, 2, 3–CD-ROM 1: Number; CD-ROM 2: Shape and Space, Statistics and Probability; CD-ROM 3: Patterns and Relations
• Student Refresher–116 pages, softcover
• Teacher's Manual–245 pages, softcover

Annotation:
The CD-ROMs in this resource package present the Mathematics 10 outcomes—Common and Pure clusters only—in an interactive manner. All lessons follow the pattern of an introduction, followed by a tutorial example for students, a summary of concepts, practice problems, extra practice and a self check. Students are able to monitor their own progress through the various components of each lesson.

• *CD-ROMs 1, 2, 3*
The three CD-ROMs are sequenced in the same order as the strand sequencing shown in the Mathematics 10 course derived from the Common Curriculum Framework, starting with Number, and continuing through Patterns and Relations, Shape and Space, and Statistics and Probability. In total there are 46 lessons in the complete set. The program is very interactive and uses many "explorers," which allow the student to simulate mathematics concepts that involve: the factoring of polynomials using algebra tiles, solving right triangles, volume and surface area, and linear relations. Also included on the CD-ROMs is a glossary that students can access as a pull-down menu. Students can also set the sound level to their own liking. When working within the program, students can control the pace of moving through the material. Motivational strategies are also included. Students are required to correctly answer questions, and as they do, a portion of a puzzle is uncovered until a complete picture is revealed.
• *Student Refresher*
The student refresher follows the organization of the CD-ROMs and provides additional examples for students. Answers for each question are located at the end of the document.
• *Teacher's Manual*
The teacher's manual begins with installation notes for stand-alone Windows 95, NT and 3.1, and Macintosh computers. Minimum system requirements are noted. The manual continues with network installation procedures and troubleshooting notes. The instructional components are also summarized. There are cross-references to the student refresher and to the objectives, terminology and lesson components on the appropriate CD-ROM. Prerequisite skills are also listed.

Comments:
• The faster the computer used, the better. With a 133 MHz Pentium, page loading is fast and effective. With a 486/66 MHz computer, students become bored quickly because of slow page loading.
• The "explorers" enable students to gain conceptual understanding of key outcomes, such as the alternative forms of expressing linear relations.
• The student refreshers can be used profitably by most students, especially in classroom situations where students have to share computers.
• These comments only refer to Version 1.1 of the resource package; earlier versions, such as Version 1.0, are not approved WCP resources and contain significant differences that reduce the effectiveness of the resources.
• Students are not shown how to use their graphing calculators. Instruction in the use of graphing calculators is confined to "read your calculator manual." For students without access to a qualified tutor/teacher, this reduces the effectiveness of the resource package.
• In the lessons concerned with factorization, the screens only show the trial method. Students who choose to use the decomposition method mentioned in the student refresher cannot navigate their way through the lessons.
• In the lessons concerned with function notation, there are many examples of the composition of functions, with expressions like $f(g(x))$. Such examples are beyond the outcomes of Pure Mathematics 10.
• Some of the numbers used in real-life examples are unrealistic. One example, in the Linear Functions lesson, has a large swimming pool being emptied at 6000 L/h, resulting in a five-day time to empty the pool. Most large pools can be emptied in three or four hours. These unrealistic numbers hinder students who check answers for reasonableness against the context of the question.

System Requirements:
• Macintosh: System 7.1 or higher, 8 MB of free RAM above system requirements (16 MB or more recommended), VGA 256 colour 14-inch or larger monitor, 15 MB or more of free hard disk space, double speed CD drive or better, 8 bit sound support for audio.
• Windows 3.1: MPC2 compliant computer, 486SX 33 MHz (50 MHz or better recommended), 8 MB RAM (16 MB recommended), VGA 256 colour monitor, 40 MB or more of free hard disk space, double speed CD drive or better, Soundblaster or 100% support for audio.
• Windows 95: MPC2 compliant computer, 486SX 66 MHz (Pentium recommended), 16 MB RAM, VGA 256 colour monitor, 40 MB or more of free hard disk space, double speed CD drive or better, Soundblaster or 100% support for audio.
• Windows 98 or NT: MPC2 compliant computer, Pentium 100 MHz (Pentium 133 or faster recommended), 16 MB or more RAM, VGA 256 colour monitor, 40 MB or more of free hard disk space, double speed CD drive or better, Soundblaster or 100% support for audio.

• Additional requirements for network installations: faster networks provide more satisfactory performance; to run *The Learning Equation: Mathematics 10* from the server hard drive and copy all the CD-ROM files requires 2.0 GB or more free space; to run *The Learning Equation: Mathematics 10* from a central CD-ROM drive, the CD-ROM drive or jukebox must be connected to the network server.

Continued

BEST COPY AVAILABLE

PURE MATHEMATICS 10
LEARNING AND TEACHING RESOURCES

Continued

Audience: General

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
	✓	✓	✓						
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
	✓	✓							

Course(s):

	10	11	12
Applied Mathematics			
Pure Mathematics	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓	✓		✓	✓

Publisher: ITP Nelson Canada
Distributor: ITP Nelson
1120 Birchmount Road
SCARBOROUGH, ON, CANADA
M1K 5G4
Telephone: (800) 268-2222 ; (416) 752-9100
Fax: (800) 430-4445 ; (416) 752-9646
Internet: http://www.nelson.com

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1998	0176059598	• CD-ROMs 1, 2, 3	$150.00 (Single Station Price)
1998	0176059695	• Student Refresher	$8.50
1998	0176059733	• Teacher's Manual	$74.00

PURE MATHEMATICS 10
LEARNING AND TEACHING RESOURCES

MATHPOWER 10 (Western Edition)
- Student Text
- Teacher's Resource
- Computer Data Bank (Windows Version)
- NEW • Computerized Assessment Bank (Windows Version)
- NEW • Blackline Masters
- NEW • Solutions

NEW **Breadth and Depth Resource**

Author(s):
Angel, P. et al.

Physical Characteristics:

- Student Text–480 pages, hardcover
- Teacher's Resource–310 pages, softcover
- Computer Data Bank (Windows Version)–Teacher's Resource, 98 pages, softcover; Data Disk, one 3.5" disc
- Computerized Assessment Bank (Windows Version)–One CD-ROM and User's Notes, 27 pages, softcover
- Blackline Masters–196 pages, softcover
- Solutions–783 pages, softcover

Annotation:
The resource package closely maps the content and philosophy of the Common Curriculum Framework. The framework's mathematical processes are woven throughout the resource. A conscientious effort was made to relate the mathematical concepts to real-world situations. The student text makes good use of visual presentations, and the format is consistent throughout.

This program supports the learning of mathematics in a variety of ways. Concepts and skills are presented in problem-solving contexts, and questions are designed to help students express their ideas about mathematics orally and in writing. Students are encouraged to work in small groups, where appropriate, to explore new ideas; manipulatives are used for the understanding of abstract concepts; and the use of appropriate technology is integrated throughout the text. The mathematical processes of communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization are integrated in examples and activities.

• *Student Text*
The student text has eight chapters that relate to topics from the Common Curriculum Framework strands. Each chapter begins with a connection problem followed by a "Getting Started" section. An inquiry approach is used to discover concepts in the development of the outcomes. Practice exercises are included. Applications and problem-solving questions use real-life examples. Suggestions are made for incorporating graphing calculators and computer software. Chapter reviews as well as cumulative reviews are provided. Resources at the end of the text include data banks, answers, glossary, applications index and technology index.

• *Teacher's Resource*
The teacher's resource contains extensive teaching notes, including enrichment and reteaching ideas, a list of prerequisite skills, and assessment strategies. Also included are suggestions for addressing the use of technology and the mathematical processes, especially communication, mental mathematics, problem solving and connections. Some answers for problems are provided, with one solution being given for those problems with multiple approaches/solutions. Blackline masters are included for grid, dot and geometric net shapes, and for alternate assessment forms.

• *Computer Data Bank (Windows Version)*
This resource includes five extensive, high interest databases — movies, sports, skiing, Olympics and insurance — together with a teacher's resource. In addition to application blackline masters for student work, software specific blackline masters are included to help teach database management skills. Questions address a wide variety of outcomes.

• *Computerized Assessment Bank (Windows Version)*
This Windows based (3.1 or 95) software package includes a manual, a mathematical editor and a question bank. There are about 50 questions per chapter. Some multiple-choice questions can have their distractors reordered; and, for many other questions, the user can change key parameters in the stem, whereupon the program will change the distractors with a click of a button. The mathematical editor allows teachers to add questions to address more fully the philosophy of the program.

• *Blackline Masters*
The blackline masters supplement *MATHPOWER 10* student and teacher resources. The blackline masters provide an introduction to mathematics, which includes learning styles, goal setting, section questions, chapter reviews, two chapter tests (all short answer style) from each chapter, cumulative reviews and several projects.

• *Solutions*
This solutions manual supplements the *MATHPOWER 10* student and teacher resources, and gives a step-by-step solution to every question from the student text.

Comments:
- The introductory pages of the student resource, which outline the mathematical processes and the NCTM Standards, are an essential part of the resource.
- An introduction to the operation of ClarisWorks for Windows 4.0 and Microsoft Works for Windows 3.0 is included as part of the teacher's resource for the computer data bank.
- Manipulatives, such as algebra tiles and suitable software, are necessary for using the resource effectively. These are not supplied with the resource.

Cautions:
- References are made in both the student and the teacher materials to specific Internet web sites. **The web sites are not approved. Teachers, for their own protection, should review the current status of the web sites, including the documents identified in the links, to ensure that the site contains accurate information and information that meets the criterion of social considerations.**
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.
- The computerized assessment bank is a test generator but does not include a tracking system.
- The computer data bank can only be used with ClarisWorks for Windows or Microsoft Works for Windows. It does not include either a Macintosh version or a version that can be used with any of the standard office suites, whether Macintosh or Windows 95.
- For those using the 486DX chip, a math coprocessor is required to use the computerized assessment bank. The bank can be operated with all Pentium chips.

BEST COPY AVAILABLE

Continued

PURE MATHEMATICS 10
LEARNING AND TEACHING RESOURCES

Continued

System Requirements:
Computer Data Bank
- Windows 95: 486/50 MHz, 8 MB RAM, mouse, either ClarisWorks or Microsoft Works.
- Windows 3.1: 386DX/33 MHz minimum, 4 MB RAM (8 MB recommended), Microsoft Works. Windows 95 recommended.

Computerized Assessment Bank
- Windows 95: 486DX/66 MHz (Pentium processor recommended), 8 MB RAM, mouse, either ClarisWorks or Microsoft Works.
- Windows 3.1: 486DX/66 MHz (Pentium processor recommended), 5 MB RAM (8 MB recommended), Microsoft Works. Windows 95 recommended.

Audience: General

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
	✓	✓	✓						
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
	✓	✓							

Course(s):

	10	11	12
Applied Mathematics			
Pure Mathematics	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓	✓	N/A	✓	✓

Publisher: McGraw-Hill Ryerson
Distributor: McGraw-Hill Ryerson Ltd.
300 Water Street
WHITBY, ON, CANADA L1N 9B6
Telephone: (800) 565-5758; (905) 430-5000
Fax: (800) 463-5885; (905) 430-5020
Internet: http://www.mcgrawhill.ca

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1998	0075525968	• Student Text	$48.95
1998	0075525976	• Teacher's Resource	$110.00
1998	0075600196	• Computer Data Bank (Windows Version)	$110.00
1997	0075601621	• Computerized Assessment Bank (Windows Version)	$225.00
1999	0075604981	• Blackline Masters	$100.00
1999	0075603748	• Solutions	$165.00

NEW

WCP

Explorations Series

Modeling Motion: High School Math Activities with the CBR

Annotation:
This resource includes investigation activities that use the calculator-based ranger (CBR) to obtain data from physical phenomena. Using a TI-82 or TI-83 graphing calculator, students obtain a mathematical equation to describe the physical event(s). Activities are well-suited to specific outcomes. Topics include arithmetic and geometric growth, systems of linear equations in two variables, quadratic functions, and exponential functions. The resource provides practice data to enable students to complete the investigations without a CBR, if necessary.

Comments:
- The instructions are only for use with a TI-82 or TI-83 graphing calculator.
- The intended scope of instruction requires a CBR.

Depth Resource

Author(s):
Antinone, L., Gough, S.

Audience: General

Physical Characteristics:
114 pages, softcover

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
		✓			✓				
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
		✓				✓			

Course(s):

	10	11	12
Applied Mathematics	✓	✓	
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

Publisher: Texas Instruments Incorporated
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1997
ISBN: 1886309140
Title: Modeling Motion: High School Math Activities with the CBR
Est. WCP Price(s): $16.83

PURE MATHEMATICS 10
LEARNING AND TEACHING RESOURCES

NEW WCP

Pure Mathematics 10 (Distance Learning Package)

- Module 1: Statistics and Probability
- Module 2: Patterns and Relations
- Module 3: Algebra
- Module 4: Number Connections
- Module 5: Shape and Space
- Assignment Booklets: Modules 1-5
- Learning Facilitator's Manual

Breadth and Depth Resource

Physical Characteristics:

- Module 1: Statistics and Probability–188 pages, coilbound
- Module 2: Patterns and Relations–206 pages, coilbound
- Module 3: Algebra–183 pages, coilbound
- Module 4: Number Connections–168 pages, coilbound
- Module 5: Shape and Space–124 pages, coilbound
- Assignment Booklets: Modules 1-5–5 assignment booklets, 9–18 pages each, stapled
- Learning Facilitator's Manual–Approximately 80 pages, loose

Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:

- Access to Publisher's Disks for Production

Annotation:

This distance education resource package includes five modules with assignments, as well as a learning facilitator's manual. This resource package refers to *MATHPOWER 10* (McGraw-Hill Ryerson) regularly. References to calculator and computer appplications are made and explained. All mathematical processes are involved. In going to other resources for explorations and explanations, this resource package touches on a variety of learning styles.

Comments:

- This resource package is set up for individual learning and would work best for individualized programs.
- This is a wraparound resource package, as materials are integrated with the *MATHPOWER 10* student text. This package cannot be used as a stand-alone resource.
- The introductory pages of each module, which outline the mathematical processes and the NCTM Standards, are an essential part of the student resources.
- Manipulatives, such as algebra tiles and suitable software, are necessary for using the resource package effectively. These are not supplied with the resource package.

Cautions:

- References are made in both the student and the teacher materials to specific Internet web sites. **The web sites are not approved. Teachers, for their own protection, should review the current status of the web sites, including the documents identified in the links, to ensure that the site contains accurate information and information that meets the criterion of social considerations.**
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource package in a manner that is consistent with the calculator policy.

Audience: General

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**			
	✓	✓	✓						
Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**
	✓	✓							

Course(s):

	10	11	12
Applied Mathematics			
Pure Mathematics	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓	✓		✓	✓

Publisher: Learning Technologies Branch (LTB)
Alberta Learning
Distributor: Learning Technologies Branch (LTB)
Alberta Learning
Box 4000
BARRHEAD, AB, CANADA T7N 1P4
Telephone: (780) 674-5333
Fax: (780) 674-6561

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1999	0774115122	• Module 1: Statistics and Probability	$18.60
1999	0774115017	• Module 2: Patterns and Relations	$18.60
1999	0774115157	• Module 3: Algebra	$18.60
1999	0774114991	• Module 4: Number Connections	$18.60
1999	0774115076	• Module 5: Shape and Space	[illegible]
1999		• Assignment Booklets: Modules 1-5	[illegible]
1999	0774115149	• Learning Facilitator's Manual	$80.00

NEW WCP

Secondary Math
Secondary Math Lab Toolkit
(Macintosh / Windows Version 1.1)

Depth Resource

Physical Characteristics:
One CD-ROM and a User's Guide—128 pages, bound—all in a 3-ring binder

Annotation:
The toolkit contains graphical tools for algebra, geometry, data analysis and probability. A text editor, function editor, spreadsheet editor and matrix editor are linked. The graphs are clear and may be transformed in a variety of ways. Probability models use dice and spinners. A visual representation of algebra tiles is included.

Comments:
- Experienced users will be able to use the resource more profitably than beginners.
- There is a high level of linking among all tools within the toolkit.
- The resource provides methods of transforming relations only from within the symbolic editor, but not from graphical forms.
- The algebra tiles representation is very limited and is harder to use and less flexible than the concrete tiles.
- The tutorial materials may be insufficient for users of the toolkit.

System Requirements:
- Macintosh: minimum of a Macintosh LC II, with 12 MB RAM total and System 7.0 or higher, 256 colour 13-inch monitor, 6 MB hard disk space.
- Windows 3.1: Windows 3.1 or 3.11, 486/33 MHz or higher, 12 MB RAM, VGA 13-inch 256 colour monitor, 6 MB hard disk space.
- Windows 95: 486/50 MHz, 12 MB RAM, hard drive, VGA 13-inch 256 colour monitor, 6 MB hard disk space. The use of a Pentium processor with 16 MB RAM is recommended.

Audience: General

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
								✓	✓
Common	C1	C2	C3	C4	C5	C6			
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
		✓		✓	✓	✓	✓	✓	✓

Course(s):

	10	11	12
Applied Mathematics			✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓	✓	✓	✓		✓	✓	✓	✓

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 ; (416) 293-8464
Fax: (416) 293-0846
Internet: http://www.cornerstone.gagepub.ca

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1998	0134330528 (User's Guide)	Secondary Math Lab Toolkit (Macintosh/Windows Version 1.1)	$129.95

BEST COPY AVAILABLE

NEW WCP *Explorations Series*
Statistics Handbook for the TI-83

Annotation:
This resource gives detailed instructions on the use of a TI-83 graphing calculator in statistics and probability. It uses real-world applications to illustrate the technical steps taken to obtain necessary statistical information. The book contains an expansion of the information that would be found in a user's manual. There are notes to teachers with suggestions for the classroom. The resource covers material taught throughout the Statistics and Probability strand for grades 10, 11 and 12.

Teacher Resource

Audience: Teacher

Author(s):
Morgan, L.

Physical Characteristics:
157 pages, softcover

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓		✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	✓

Publisher: Texas Instruments Incorporated
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1997
ISBN: 1886309078
Title: Statistics Handbook for the TI-83
Est. WCP Price(s): $23.18

NEW

Explorations Series
Using the TI-86 in Collegiate Mathematics: A Tutorial

Annotation:
This resource gives instruction in the use of the TI-86 graphing calculator to perform matrix and statistics operations, to graph functions, and to solve systems of equations.

Comments:
• About 50% of this resource is extraneous to the WCP.

Teacher Resource

Author(s):
Dodd, F.; Cruthirds, J.

Audience: Teacher

Physical Characteristics:
177 pages, softcover

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**			
Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓		✓	✓					

Publisher: Texas Instruments Incorporated
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1997
ISBN: 1886309116
Title: Using the TI-86 in Collegiate Mathematics: A Tutorial
Est. WCP Price(s): $22.44

NEW

WCP A Visual Approach to Algebra

Annotation:
This is a supplementary activity book for clusters C1 and C2. An investigative approach to learning is used to introduce concepts related to the relationships between such things as graphing, scale, data and algebra. This resource can be used as an introduction or extension to many of the outcomes in clusters C1 and C2. Student activity worksheets and teacher note pages are given for all activities. The resource includes the use of a graphing calculator for various activities.

Teacher Resource

Author(s):
Van Dyke, F.

Comments:
- The activities could be extended easily to meet outcomes related to function notation, domain and range, direct variation, midpoint, and irrational number representation.
- The imperial system is used throughout the resource for problem-solving situations.
- The activities are repetitive; teachers would not use all of them, as there are many activities that meet a single outcome.

Physical Characteristics:
151 pages, softcover

Audience: General/Gifted/LD (Mild)

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
	✓	✓							
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9

Course(s):

	10	11	12
Applied Mathematics	✓		
Pure Mathematics	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓					

Publisher: Dale Seymour Publications
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1998
ISBN: 1572324414
Title: A Visual Approach to Algebra
Est. WCP Price(s): $20.92

PURE MATHEMATICS 11
LEARNING AND TEACHING RESOURCES

WCP

Acces: The Teacher's Database

- Acces: The Teacher's Database (Macintosh Version 3.33) NEW
- Acces: The Teacher's Database (DOS/Windows Version 3.32) NEW
- Canadian Math Database (Grades 11-12) (Catalog) NEW

Teacher Resource

Physical Characteristics:

- Macintosh Version 3.33: One 3.5" Macintosh disc; Support Materials (Typesetting Guide—100 pages, coilbound; Sample Database—23 pages, paperbound; 'Extra' Database—15 pages, paperbound; Reference Manual—114 pages, coilbound)
- DOS/Windows Version 3.32: Three 3.5" DOS/Windows discs; Support Materials (Typesetting Guide—100 pages, coilbound; Sample Database—23 pages, paperbound; 'Extra' Database—15 pages, paperbound; Reference Manual—114 pages, coilbound)
- Canadian Math Database (Grades 11-12) (Catalog): 428 pages, 3-ring binder; two 3.5" discs (Macintosh Version 1.1A) and two 3.5" discs (DOS/Windows Version 1.0A)

Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:

- Access to Publisher's Disks for Production

Annotation:

This resource package is a publishing system that allows teachers to draw from a collection of thousands of items arranged in topics. Most questions are of multiple-choice format, but these can be recast in open-ended format by removing the distractors. There is a preponderance of procedural items, but there are enough conceptual and problem-solving examples to allow the teacher to build an assessment consistent with a more conceptual blueprint. The technology assumed is that of the scientific calculator rather than the graphing calculator.

Comments:

- A teacher who is experienced in entering mathematical equations into a word processing program will be able to use this resource package most effectively.

Cautions:

- The Windows setup program is not yet released; the DOS/Windows Version 3.32 must be loaded under DOS, even in Windows 3.1 and Windows 95 environments.
- Windows 3.1 installations require 32-bit extensions before they run.

System Requirements:

- Macintosh: System 7.0 or higher, 68030 processor (68040 or PowerMac recommended), 4 MB RAM (6 MB recommended).
- Windows: 486/50 MHz (Pentium recommended), disc cache set to at least 512 KB.

Audience: Teacher

Cluster(s):

	A1	A2	A3	A4	A5	A6	A7	A8	A9
Applied									

	C1	C2	C3	C4	C5	C6
Common				✓	✓	

	P1	P2	P3	P4	P5	P6	P7	P8	P9
Pure			✓	✓	✓				✓

Course(s):

	10	11	12
Applied Mathematics			
Pure Mathematics		✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓	✓		✓		

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓				

Publisher: EducAide Software
Distributor: EducAide Software
3065 Richmond Parkway, Suite 102
RICHMOND, CA, USA 94806
Telephone: (800) 669-9405 ; (510) 222-0600
Fax: (510) 222-0165
Internet: http://www.educaide.com

Copyright:
1997
1997
1998

Component Titles:	Est. WCP Price(s):
• Acces: The Teacher's Database (Macintosh Version 3.33)	$495.00 (US)
• Acces: The Teacher's Database (DOS/Windows Version 3.32)	$595.00 (US)
• Canadian Math Database (Grades 11-12) (Catalog)	$225.00 (US)

BEST COPY AVAILABLE

PURE MATHEMATICS 11
LEARNING AND TEACHING RESOURCES

Addison-Wesley Mathematics 11
(Western Canadian Edition)
- Student Text
- Independent Study Guide
- Teacher's Resource Book (includes Selected Solutions CD-ROM) (Macintosh/Windows Version 1.0)
- Template and Data Kit (Macintosh/Windows Version 1.0)

Breadth and Depth Resource

Author(s):
Alexander, R.; Kelly, B.

Physical Characteristics:
- Student Text–601 pages, hardcover
- Independent Study Guide–146 pages, softcover
- Teacher's Resource Book–Approximately 300 pages, loose; CD-ROM
- Template and Data Kit–152 pages, coilbound; CD-ROM (for ClarisWorks, Macintosh 2.0, Windows 1.0, Microsoft Works 3.0, Microsoft Office 97 and Windows 95)

Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:
- Access to Publisher's Disks for Production (for Template and Data Kit)

Annotation:
The resource package closely maps the content of the Common Curriculum Framework. The framework's mathematical processes are embedded throughout the resource package. A conscientious effort was employed to relate the mathematical concepts developed to real-world situations. The student text makes good use of visual presentations, and the format is consistent throughout. Icons and headings are the primary means of navigation through the student text.

This package supports the learning of mathematics in a variety of ways. Concepts and skills are presented in problem-solving contexts, and open-ended questions are designed to help students express their ideas about mathematics orally and in writing. Students are encouraged to work in small groups, where appropriate, to explore new ideas; manipulatives are used for the understanding of abstract concepts; and the use of appropriate technology is integrated throughout the student text. The mathematical processes of communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization are highlighted through the use of icons in examples, explanations and activities.

- *Student Text*

The text has nine chapters that relate mathematical content to topics from the Common Curriculum Framework strands. Each chapter focuses on a connection problem, entitled "Mathematical Modelling." Relevant mathematical material either precedes the problem, or follows the problem, depending on the chapter. An inquiry approach is used to discover concepts in the development of the outcomes. Practice exercises are included. Applications and problem-solving questions use real-life examples. Major examples that incorporate graphing calculators and computer software occur throughout the resource.

- *Independent Study Guide*

This resource provides students with additional examples and explanations to supplement the material in the student text. An introductory chapter helps the student develop efficient study skills. For the other nine chapters, which parallel the chapters of the student text, additional explanations, cross-referenced self-tests, mini-glossaries and overviews provide additional assistance to the student. Solutions to the self-tests included in the independent study guide are given at the back of the guide in short form, and in more extended form on a CD-ROM included in the teacher's resource book.

- *Teacher's Resource Book*

The teacher's resource book contains teaching notes relating to examples in the student text, blackline masters, additional examples and traditional unit tests. A TI-83 graphing calculator handbook, suggestions for graphing calculator activities and a CD-ROM with solutions to the student text and independent study guide are part of the teacher's resource book.

- *Template and Data Kit*

This resource includes five extensive databases—hockey greats, transportation, aircraft, movies and real estate; templates for the spreadsheet activities found in the student text; and a teacher's guide. The teacher's guide contains spreadsheet and database tutorials, additional technology activities, and teaching notes and answers. The activities address a wide variety of outcomes.

Comments:
- The treatment of the side-side-angle case for oblique triangles (specific outcome P3–5) is integrated into the calculation of chord and secant lengths (specific outcomes C5–5 and P5–7). The treatment uses two right triangles, in contrast to the more traditional use of the law of sines.
- The teacher's resource book assessment sections have a strong emphasis on procedures. This approach to assessment is not consistent with the philosophy of the WCP Common Curriculum Framework.
- The instructional strategies are limited to those found in the student text.
- The teaching notes are confined to advice on examples from the student text; they do not include additional instructional strategies.

System Requirements:
Teacher's Resource Book
- Macintosh: 68020 or greater processor, Mac OS 7.0 or later, 7 MB RAM minimum, 5 MB hard drive space plus 7 MB temporary drive space available during installation, 256 colour 13-inch monitor, 2X CD drive or better.
- Windows 3.1: 386DX/33 MHz minimum, 4 MB RAM minimum, 5 MB hard drive space plus 7 MB temporary drive space available during installation, 256 colour 13-inch monitor, 2X CD drive or better.
- Windows 95: 486DX/50 MHz (Pentium recommended), 4 MB RAM minimum, 5 MB hard drive space plus 7 MB temporary drive space available during installation, 256 colour 13-inch monitor, 2X CD drive or better.

Template and Data Kit
- Macintosh: System 6.0.5 or higher, 4 MB RAM, mouse, ClarisWorks.
- Windows 3.1: 386DX/33 MHz minimum, 4 MB RAM (8 MB recommended), either Microsoft Works or ClarisWorks. Windows 95 recommended.
- Windows 95: 486/50 MHz (Pentium recommended), 8 MB RAM (16 MB recommended), mouse, either ClarisWorks, Microsoft Works or Microsoft Excel/Access.

Audience: General

Continued

©Western Canadian Protocol

PURE MATHEMATICS 11
LEARNING AND TEACHING RESOURCES

Continued

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
				✓	✓				
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
			✓	✓	✓				

Course(s):

	10	11	12
Applied Mathematics			
Pure Mathematics		✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		**Patterns and Relations**			**Shape and Space**			**Statistics and Probability**	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓	✓	✓	✓	✓	✓			

Publisher: Addison-Wesley Longman Ltd.
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON. CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1998	0201346249	• Student Text	$51.95
1999	0201346257	• Independent Study Guide	$5.67
1999	0201346265	• Teacher's Resource Book (includes Selected Solutions CD-ROM) (Macintosh/Windows Version 1.0)	$121.64
1998	0201395495	• Template and Data Kit (Macintosh/Windows Version 1.0)	$135.15

WCP

The Geometer's Sketchpad

- The Geometer's Sketchpad (Macintosh Version 3)
- The Geometer's Sketchpad (Windows Version 3.03)

NEW

Annotation:
This resource is designed as a tool for teaching and exploring geometrical concepts. It allows students to manipulate geometrical figures with a hands-on approach. The sketchpad models geometry in two linked views. Sketches depict concrete geometry and emphasize spatial reasoning, while scripts describe constructions verbally and abstractly. The program allows for the construction, labelling, measurement and manipulation of any geometric figure, as well as the exploration of geometry concepts taught in Grade 7 through Grade 11. For high school, the primary uses are in Pure Mathematics 10 and 11, although the program can be adapted to solve design and layout problems in Applied Mathematics 10 and 11. The user guide and reference manual provide adequate instruction for learning to use the program. The teaching notes and sample activities provide suggestions for classroom use. Several sample investigations, explorations, demonstrations and construction activities on a wide range of geometry topics are included.

Depth Resource

Comments:
- This resource can have greater applications as the user becomes more familiar with the program.
- The videocassette supports both Macintosh and Windows.
- The system defaults to inches, but it can be set to centimetres.
- The demonstration version allows users to produce sketches, but these sketches cannot be saved, printed, or exported to another document.
- Some of the instructions in the reference manual are difficult for the novice user to follow.

Physical Characteristics:

- Macintosh Version–Three 3.5" discs; one binder with User Guide and Reference Manual, 242 pages, softcover; Teaching Notes, 78 pages; Macintosh Quick Reference; one videocassette
- Windows Version–Two 3.5" discs; one binder with User Guide and Reference Manual, 240 pages, softcover; Teaching Notes, 78 pages; Windows Quick Reference; one videocassette

System Requirements:
- Macintosh: minimum of a Macintosh Plus, with 1 MB RAM and System 6 or higher. A video supplied with the Windows version supports both Macintosh and Windows.
- Windows 3.1: Windows 3.1 in enhanced mode, 386/33 MHz, 4MB RAM, hard drive. The video supports both Macintosh and Windows versions.
- Windows 95: 486/50 MHz (Pentium recommended), 8MB RAM, hard drive. The video supports both Macintosh and Windows versions.

Audience: General

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
	✓		✓						
Common	C1	C2	C3	C4	C5	C6			
	✓				✓				
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
					✓				

Course(s):

	10	11	12
Applied Mathematics	✓	✓	
Pure Mathematics	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

Publisher: Spectrum Educational Supplies Ltd.
Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600; (905) 841-0600
Fax: (800) 668-0602; (905) 727-6265
Internet: http://www.spectrumed.com

Copyright:
1995

1995

Component Titles:	Est. WCP Price(s):
• The Geometer's Sketchpad (Macintosh Version 3)	$274.95
• The Geometer's Sketchpad (Windows Version 3.03)	$274.95

NEW WCP

GrafEq (Macintosh Version 2.06)

Depth Resource

Physical Characteristics:
Two 3.5" discs and a manual—approximately 150 pages—all in a 3-ring binder

Annotation:
This is a relation plotting tool that enables a student to graph functions, from implicit and explicit definitions, and from relations as well as inequalities. There is the ability to save and print graphs, and to integrate these graphs into other documents.

Comments:
- The ability to print graphs is an advantage.
- The ability to blend colours is an advantage, when graphing systems of inequalities.
- Limited on screen help is provided.
- Inequalities of the form < and ≤ cannot be distinguished from the display.

System Requirements:
- Macintosh: System 6.5 or higher (System 7 or higher recommended), 2 MB RAM (4 MB recommended).

Audience: General

Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:
- Access to Publisher's Disks for Production

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
					✓				✓
Common	C1	C2	C3	C4	C5	C6			
		✓							
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
				✓		✓		✓	✓

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
				✓					

Publisher: Pedagoguery Software
Distributor: Pedagoguery Software
4446 Lazelle Avenue
TERRACE, BC, CANADA V8G 1R8
Telephone: (250) 638-8606
Fax: (250) 638-8606
Internet: http://www.cafe.net/peda

Copyright:
1998

Title:
GrafEq (Macintosh Version 2.06)

Est. WCP Price(s):
$94.50 (Single User)
$300.00 (Up to 30 computer site licence)
$350.00 (31–40 computer site licence)
$400.00 (41–50 computer site licence)
$450.00 (51–60 computer site licence)
$500.00 (61 or more computer site licence)

BEST COPY AVAILABLE

PURE MATHEMATICS 11
LEARNING AND TEACHING RESOURCES

WCP

Green Globs & Graphing Equations

- Green Globs & Graphing Equations (Macintosh Version 2.3)
- Green Globs & Graphing Equations (Windows Version 2.3)

Depth Resource

Physical Characteristics:
- Macintosh Version–One 3.5" disc and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder
- Windows Version–One 3.5" disc and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder

Annotation:
This resource graphs different forms of linear, quadratic, polynomial and trigonometric relations. A second program provides a graph and requires the student to enter the equation. There are also two games that act as motivational tools. Five graphs can be displayed simultaneously. The resource is user-friendly.

Comments:
- A teacher's guide accompanies the disc and provides ideas and worksheets.
- Natural log is the only logarithm that can be graphed, and $y = e^x$ is the only exponential function that can be graphed.
- Asymptotes are not shown.
- Intercepts are approximations.

System Requirements:
- Macintosh: System 6.0.5 or higher (System 7 recommended), 1 MB RAM.
- Windows 3.1: Windows 3.1, 486/25 MHz or better, 2 MB RAM, 256 colour monitor.
- Windows 95: 486DX/50 MHz or higher (Pentium recommended), 4 MB RAM, 256 colour monitor.

Audience: General

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
	✓	✓							
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
				✓				✓	✓

Course(s):

	10	11	12
Applied Mathematics	✓		
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
			✓	✓		✓	✓		

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 ; (416) 293-8464
Fax: (416) 293-0846
Internet: http://www.cornerstone.gagepub.ca

Copyright:
1996
1997

Component Titles:	Est. WCP Price(s):
• Green Globs & Graphing Equations (Macintosh Version 2.3)	$129.95
• Green Globs & Graphing Equations (Windows Version 2.3)	$129.95

NEW

WCP An Introduction to the TI-82 Graphing Calculator

Teacher Resource

Author(s):
Govatos, M.

Physical Characteristics:
48 pages, softcover

Annotation:
This resource gives clear examples and steps for using the TI-82 graphing calculator in a variety of areas. It is a teacher resource of blackline masters that can be reproduced for student use or reference.

Comments:
- The resource can be used with the TI-83 graphing calculator as well.
- There is some use of imperial units (p. 40).

Audience: Teacher

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓		✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

Publisher: Frank Schaffer Publications Inc.
Distributor: Frank Schaffer Publications Inc.
23740 Hawthorne Boulevard
TORRANCE, CA, USA 90505
Telephone: (800) 609-1735
Fax: (800) 837-7260 ; (310) 794-5468
Internet: http://www.frankschaffer.com/frntpage.html

Copyright: 1998
ISBN: 0768200067
Title: An Introduction to the TI-82 Graphing Calculator
Est. WCP Price(s): $18.95 (US)

PURE MATHEMATICS 11
LEARNING AND TEACHING RESOURCES

WCP NEW

MATHPOWER 11 (Western Edition)

• Student Text

Annotation:
The student text closely maps the content and philosophy of the Common Curriculum Framework. The framework's mathematical processes of communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization are integrated in examples and activities. A conscientious effort was made to relate the mathematical concepts to real-world situations. The student text makes good use of visual presentations, and the format is consistent throughout. This student text supports the learning of mathematics in a variety of ways. Concepts and skills are presented in problem-solving contexts, and questions are designed to help students express their ideas about mathematics orally and in writing. Students are encouraged to work in small groups, where appropriate, to explore new ideas; manipulatives are used for the understanding of abstract concepts; and the use of appropriate technology is integrated throughout the student text.

• *Student Text*
The student text has nine chapters that relate to topics from the Common Curriculum Framework strands. Each chapter begins with a connection problem, followed by a "Getting Started" section. An inquiry approach is used to discover concepts in the development of the outcomes. Practice exercises are included. Applications and problem-solving questions use real-life examples. Suggestions are made for incorporating graphing calculators and computer software. Chapter reviews, as well as cumulative reviews are provided. Resources at the end of the text include data banks, answers, a glossary, an applications index and a technology index.

Breadth Resource

Author(s):
Knill, G. et al.

Physical Characteristics:
670 pages, hardcover

Comments:
• The introductory pages of the student text, which outline the mathematical processes and the NCTM Standards, are an essential part of the resource.

Cautions:
• References are made in the student text to specific Internet web sites. **The web sites are not approved. Teachers, for their own protection, should review the current status of the web sites, including the documents identified in the links, to ensure that the site contains accurate information and information that meets the criterion of social considerations.**

Audience: General

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**			
				✓	✓				
Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**
			✓	✓	✓				

Course(s):

	10	11	12
Applied Mathematics			
Pure Mathematics		✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
N/A	✓	✓	✓	✓	✓	✓	N/A	N/A	N/A

Publisher: McGraw-Hill Ryerson
Distributor: McGraw-Hill Ryerson Ltd.
300 Water Street
WHITBY, ON, CANADA L1N 9B6
Telephone: (800) 565-5758; (905) 430-5000
Fax: (800) 463-5885; (905) 430-5020
Internet: http://www.mcgrawhill.ca

Copyright: 1999
ISBN: 0075525984

Component Titles:
• Student Text

Est. WCP Price(s):
$51.95

NEW
WCP

Explorations Series
Modeling Motion: High School Math Activities with the CBR

Annotation:
This resource includes investigation activities that use the calculator-based ranger (CBR) to obtain data from physical phenomena. Using a TI-82 or TI-83 graphing calculator, students obtain a mathematical equation to describe the physical event(s). Activities are well-suited to specific outcomes. Topics include arithmetic and geometric growth, systems of linear equations in two variables, quadratic functions, and exponential functions. The resource provides practice data to enable students to complete the investigations without a CBR, if necessary.

Comments:
- The instructions are only for use with a TI-82 or TI-83 graphing calculator.
- The intended scope of instruction requires a CBR.

Depth Resource

Author(s):
Antinone, L.; Gough, S.

Physical Characteristics:
114 pages, softcover

Audience: General

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
		✓			✓				
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
		✓				✓			

Course(s):

	10	11	12
Applied Mathematics	✓	✓	
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

Publisher: Texas Instruments Incorporated
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1997
ISBN: 1886309140

Title: Modeling Motion: High School Math Activities with the CBR

Est. WCP Price(s): $16.83

NEW

Secondary Math

Secondary Math Lab Toolkit (Macintosh / Windows Version 1.1)

Depth Resource

Physical Characteristics:
One CD-ROM and a User's Guide—128 pages, bound—all in a 3-ring binder

Annotation:
The toolkit contains graphical tools for algebra, geometry, data analysis and probability. A text editor, function editor, spreadsheet editor and matrix editor are linked. The graphs are clear and may be transformed in a variety of ways. Probability models use dice and spinners. A visual representation of algebra tiles is included.

Comments:
- Experienced users will be able to use the resource more profitably than beginners.
- There is a high level of linking among all tools within the toolkit.
- The resource provides methods of transforming relations only from within the symbolic editor, but not from graphical forms.
- The algebra tiles representation is very limited and is harder to use and less flexible than the concrete tiles.
- The tutorial materials may be insufficient for users of the toolkit.

System Requirements:
- Macintosh: minimum of a Macintosh LC II, with 12 MB RAM total and System 7.0 or higher, 256 colour 13-inch monitor, 6 MB hard disk space.
- Windows 3.1: Windows 3.1 or 3.11, 486/33 MHz or higher, 12 MB RAM, VGA 13-inch 256 colour monitor, 6 MB hard disk space.
- Windows 95: 486/50 MHz, 12 MB RAM, hard drive, VGA 13-inch 256 colour monitor, 6 MB hard disk space. The use of a Pentium processor with 16 MB RAM is recommended.

Audience: General

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
								✓	✓
Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**			
Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**
		✓		✓	✓	✓	✓	✓	✓

Course(s):

	10	11	12
Applied Mathematics			✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓	✓	✓	✓		✓	✓	✓	✓

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 ; (416) 293-8464
Fax: (416) 293-0846
Internet: http://www.cornerstone.gagepub.ca

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1998	0134330528 (User's Guide)	Secondary Math Lab Toolkit (Macintosh/Windows Version 1.1)	$129.95

NEW WCP *Explorations Series*
Statistics Handbook for the TI-83

Annotation:
This resource gives detailed instructions on the use of a TI-83 graphing calculator in statistics and probability. It uses real-world applications to illustrate the technical steps taken to obtain necessary statistical information. The book contains an expansion of the information that would be found in a user's manual. There are notes to teachers with suggestions for the classroom. The resource covers material taught throughout the Statistics and Probability strand for grades 10, 11 and 12.

Teacher Resource

Author(s):
Morgan, L.

Audience: Teacher

Physical Characteristics:
157 pages, softcover

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓		✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	✓

Publisher: Texas Instruments Incorporated
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1997
ISBN: 1886309078
Title: Statistics Handbook for the TI-83
Est. WCP Price(s): $23.18

BEST COPY AVAILABLE

PURE MATHEMATICS 11
LEARNING AND TEACHING RESOURCES

NEW WCP

Explorations Series
Using the TI-86 in Collegiate Mathematics: A Tutorial

Annotation:
This resource gives instruction in the use of the TI-86 graphing calculator to perform matrix and statistics operations, to graph functions, and to solve systems of equations.

Comments:
• About 50% of this resource is extraneous to the WCP.

Teacher Resource

Author(s):
Dodd, F.; Cruthirds, J.

Audience: Teacher

Physical Characteristics:
177 pages, softcover

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**			
Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	

Strand(s)/Substrand(s):

Number		**Patterns and Relations**			**Shape and Space**			**Statistics and Proba**	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓		✓	✓					

Publisher: Texas Instruments Incorporated
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1997
ISBN: 1886309116
Title: Using the TI-86 in Collegiate Mathematics: A Tutorial
Est. WCP Price(s): $22.44

ZAP-A-GRAPH

- ZAP-A-GRAPH (English Macintosh Version 4.2)
- ZAP-A-GRAPH (English Windows Version 4.2)

Annotation:
This is a graphing program for use in learning and reviewing graphs of relations and functions. It uses transformations, derived functions and composition of functions. Relations can be input without recasting into function form.

Comments:
- This program is to be used after a great deal of graphing information is known.
- For solving equations, a graphing calculator may be more effective.

Depth Resource

System Requirements:
- Macintosh: System 6.0 or higher, 1 MB RAM.
- Windows: Windows 3.1, 3.11 or Windows 95, 1 MB RAM.

Physical Characteristics:
- English Macintosh Version–One 3.5" disc and a manual—24 pages, softcover
- English Windows Version–One 3.5" disc and a manual—24 pages, softcover

Audience: General/Gifted

Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:
- Access to Publisher's Disks for Production

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**

Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**

Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**
				✓					✓

Course(s):

	10	11	12
Applied Mathematics			
Pure Mathematics		✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
				✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
				✓			✓		

Publisher: Brain Waves Software Inc.
Distributor: Brain Waves Software Inc.
R.R. #1
FITZROY HARBOR, ON, CANADA
K0A 1X0
Telephone: (613) 623-8686
Fax: (613) 623-8686
Internet: http://home.istar.ca/~bwaves/

Copyright:
1996
1996

Component Titles:
- ZAP-A-GRAPH (English Macintosh Version 4.2)
- ZAP-A-GRAPH (English Windows Version 4.2)

Est. WCP Price(s):
$79.00 (Single User)
$299.00 (10-User Site Licence)
$449.00 (40-User Site Licence)
$79.00 (Single User)
$299.00 (10-User Site Licence)
$449.00 (40-User Site Licence)

67

BEST COPY AVAILABLE

WCP

Acces: The Teacher's Database

NEW • Acces: The Teacher's Database (Macintosh Version 3.33)

NEW • Acces: The Teacher's Database (DOS/Windows Version 3.32)

NEW • Canadian Math Database (Grades 11-12) (Catalog)

Teacher Resource

Physical Characteristics:

• Macintosh Version 3.33–One 3.5" Macintosh disc; Support Materials (Typesetting Guide—100 pages, coilbound; Sample Database—23 pages, paperbound; 'Extra' Database—15 pages, paperbound; Reference Manual—114 pages, coilbound)
• DOS/Windows Version 3.32–Three 3.5" DOS/Windows discs; Support Materials (Typesetting Guide—100 pages, coilbound; Sample Database—23 pages, paperbound; 'Extra' Database—15 pages, paperbound; Reference Manual—114 pages, coilbound)
• Canadian Math Database (Grades 11-12) (Catalog)–428 pages, 3-ring binder; two 3.5" discs (Macintosh Version 1.1A) and two 3.5" discs (DOS/Windows Version 1.0A)

Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:
• Access to Publisher's Disks for Production

Annotation:
This resource package is a publishing system that allows teachers to draw from a collection of thousands of items arranged in topics. Most questions are of multiple-choice format, but these can be recast in open-ended format by removing the distractors. There is a preponderance of procedural items, but there are enough conceptual and problem-solving examples to allow the teacher to build an assessment consistent with a more conceptual blueprint. The technology assumed is that of the scientific calculator rather than the graphing calculator.

Comments:
• A teacher who is experienced in entering mathematical equations into a word processing program will be able to use this resource package most effectively.

Cautions:
• The Windows setup program is not yet released; the DOS/Windows Version 3.32 must be loaded under DOS, even in Windows 3.1 and Windows 95 environments.
• Windows 3.1 installations require 32-bit extensions before they run.

System Requirements:
• Macintosh: System 7.0 or higher, 68030 processor (68040 or PowerMac recommended), 4 MB RAM (6 MB recommended).
• Windows: 486/50 MHz (Pentium recommended), disc cache set to at least 512 KB.

Audience: Teacher

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**			
				✓	✓				
Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**
			✓	✓	✓				✓

Course(s):

	10	11	12
Applied Mathematics			
Pure Mathematics		✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓	✓		✓		

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓				

Publisher: EducAide Software
Distributor: EducAide Software
3065 Richmond Parkway, Suite 102
RICHMOND, CA, USA 94806
Telephone: (800) 669–9405 ; (510) 222–0600
Fax: (510) 222–0165
Internet: http://www.educaide.com

Copyright:
1997
1997
1998

Component Titles:	**Est. WCP Price(s):**
• Acces: The Teacher's Database (Macintosh Version 3.33)	$495.00 (US)
• Acces: The Teacher's Database (DOS/Windows Version 3.32)	$595.00 (US)
• Canadian Math Database (Grades 11-12) (Catalog)	$225.00 (US)

BEST COPY AVAILABLE

PURE MATHEMATICS 12
LEARNING AND TEACHING RESOURCES

Addison-Wesley Mathematics 12 (Western Canadian Edition)

- Student Text
- Template and Data Kit (Macintosh/Windows Version 1.0)

Annotation:
The resource package closely maps the content of the Common Curriculum Framework. The framework's mathematical processes of communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization are highlighted through the use of icons in examples, explanations and activities. A conscientious effort was employed to relate the mathematical concepts developed to real-world situations. The student text makes good use of visual presentations, and the format is consistent throughout. Icons and headings are the primary means of navigation through the student text.
This package supports the learning of mathematics in a variety of ways. Concepts and skills are presented in problem-solving contexts, and open-ended questions are designed to help students express their ideas about mathematics orally and in writing. Students are encouraged to work in small groups, where appropriate, to explore new ideas; manipulatives are used for the understanding of abstract concepts; and the use of appropriate technology is integrated throughout the student text.

- *Student Text*

The student text has nine chapters that relate mathematical content to topics from the Common Curriculum Framework strands. Each chapter focuses on a connection problem, entitled "Mathematical Modelling." Relevant mathematical material either precedes the problem, or follows the problem, depending on the chapter. An inquiry approach is used to discover concepts in the development of the outcomes. Practice exercises are included. Applications and problem-solving questions use real-life examples. Major examples that incorporate graphing calculators and computer software occur throughout the resource. Further attention to the mathematical processes is found in the other components of the resource package.

- *Template and Data Kit*

This resource includes four extensive databases—cars, crimes, food manufacturing and NBA statistics; templates for the spreadsheet activities found in the student text, and a teacher's guide. The teacher's guide contains spreadsheet and database tutorials, additional technology activities, and teaching notes and answers. The activities address a wide variety of outcomes.

Breadth Resource

Author(s):
LeBlanc, D.

Physical Characteristics:
- Student Text: 624 pages, hardcover
- Template and Data Kit: Teacher's Guide—35 pages, softcover; CD-ROM

Comments:
- The period of a sine or cosine function (specific outcome P8–8) is covered twice, once using the equation $y = \sin kx$ (period = $2\pi / k$) for irrational periods and once using $y = \sin(2\pi / 7)x$ for rational periods.

Cautions:
- Standard deviation of a sample mean for large samples is not addressed.

System Requirements:
Template and Data Kit
- Macintosh: System 6.0.5 or higher, 4 MB RAM, mouse, ClarisWorks.
- Windows 3.1: 386DX/33 MHz minimum, 4 MB RAM (8 MB recommended), either Microsoft Works or ClarisWorks. Windows 95 recommended.
- Windows 95: 486/50 MHz (Pentium recommended), 8 MB RAM (16 MB recommended), mouse, either ClarisWorks, Microsoft Works or Microsoft Excel/Access.

Audience: General/Gifted

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
						✓			
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
						✓	✓	✓	✓

Course(s):

	10	11	12
Applied Mathematics			
Pure Mathematics			✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Publisher: Addison-Wesley Longman Ltd.
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1999	020134629X	• Student Text	$51.75
1999	020134632X (Pkg.)	• Template and Data Kit (Macintosh/Windows Version 1.0)	$132.98

©Western Canadian Protocol

NEW WCP

Exploring Advanced Algebra with the TI-83

Annotation:
This resource contains exercises and investigations that supplement the following topics: sequences, fractals, combinatorics, probability, linear systems, matrices and linear programming.

Audience: General

Depth Resource

Author(s):
Kelly, B.

Physical Characteristics:
80 pages, coilbound

Cluster(s):

	A1	A2	A3	A4	A5	A6	A7	A8	A9
Applied						✓			

	C1	C2	C3	C4	C5	C6
Common						

	P1	P2	P3	P4	P5	P6	P7	P8	P9
Pure		✓					✓		

Course(s):

	10	11	12
Applied Mathematics			✓
Pure Mathematics	✓		✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓						✓

Publisher: Addison-Wesley Longman Ltd.
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1998
ISBN: 1895997100
Title: Exploring Advanced Algebra with the TI-83
Est. WCP Price(s): $15.71

BEST COPY AVAILABLE

PURE MATHEMATICS 12
LEARNING AND TEACHING RESOURCES

NEW WCP

GrafEq (Macintosh Version 2.06)

Depth Resource

Physical Characteristics:
Two 3.5" discs and a manual—approximately 150 pages—all in a 3-ring binder

Annotation:
This is a relation plotting tool that enables a student to graph functions, from implicit and explicit definitions, and from relations as well as inequalities. There is the ability to save and print graphs, and to integrate these graphs into other documents.

Comments:
- The ability to print graphs is an advantage.
- The ability to blend colours is an advantage, when graphing systems of inequalities.
- Limited on screen help is provided.
- Inequalities of the form < and ≤ cannot be distinguished from the display.

System Requirements:
- Macintosh: System 6.5 or higher (System 7 or higher recommended), 2 MB RAM (4 MB recommended).

Audience: General

Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:
- Access to Publisher's Disks for Production

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
					✓				✓
Common	C1	C2	C3	C4	C5	C6			
		✓							
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
				✓		✓		✓	✓

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
				✓					

Publisher: Pedagoguery Software
Distributor: Pedagoguery Software
4446 Lazelle Avenue
TERRACE, BC, CANADA V8G 1R8
Telephone: (250) 638-8606
Fax: (250) 638-8606
Internet: http://www.cafe.net/peda

Copyright:
1998

Title:
GrafEq (Macintosh Version 2.06)

Est. WCP Price(s):
$94.50 (Single User)
$300.00 (Up to 30 computer site licence)
$350.00 (31–40 computer site licence)
$400.00 (41–50 computer site licence)
$450.00 (51–60 computer site licence)
$500.00 (61 or more computer site licence)

PURE MATHEMATICS 12
LEARNING AND TEACHING RESOURCES

WCP

Green Globs & Graphing Equations

NEW • Green Globs & Graphing Equations (Macintosh Version 2.3)

NEW • Green Globs & Graphing Equations (Windows Version 2.3)

Depth Resource

Physical Characteristics:

- Macintosh Version–One 3.5" disc and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder
- Windows Version–One 3.5" disc and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder

Annotation:
This resource graphs different forms of linear, quadratic, polynomial and trigonometric relations. A second program provides a graph and requires the student to enter the equation. There are also two games that act as motivational tools. Five graphs can be displayed simultaneously. The resource is user-friendly.

Comments:
- A teacher's guide accompanies the disc and provides ideas and worksheets.
- Natural log is the only logarithm that can be graphed, and $y = e^x$ is the only exponential function that can be graphed.
- Asymptotes are not shown.
- Intercepts are approximations.

System Requirements:
- Macintosh: System 6.0.5 or higher (System 7 recommended), 1 MB RAM.
- Windows 3.1: Windows 3.1, 486/25 MHz or better, 2 MB RAM, 256 colour monitor.
- Windows 95: 486DX/50 MHz or higher (Pentium recommended), 4 MB RAM, 256 colour monitor.

Audience: General

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9

Common	C1	C2	C3	C4	C5	C6
	✓	✓				

Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
				✓				✓	✓

Course(s):

	10	11	12
Applied Mathematics	✓		
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
			✓	✓		✓	✓		

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 ; (416) 293-8464
Fax: (416) 293-0846
Internet: http://www.cornerstone.gagepub.ca

Copyright:
1996
1997

Component Titles:	**Est. WCP Price(s):**
• Green Globs & Graphing Equations (Macintosh Version 2.3)	$129.95
• Green Globs & Graphing Equations (Windows Version 2.3)	$129.95

BEST COPY AVAILABLE

PURE MATHEMATICS 12
LEARNING AND TEACHING RESOURCES

NEW

WCP An Introduction to the TI-82 Graphing Calculator

Teacher Resource

Author(s):
Govatos, M.

Physical Characteristics:
48 pages, softcover

Annotation:
This resource gives clear examples and steps for using the TI-82 graphing calculator in a variety of areas. It is a teacher resource of blackline masters that can be reproduced for student use or reference.

Comments:
- The resource can be used with the TI-83 graphing calculator as well.
- There is some use of imperial units (p. 40).

Audience: Teacher

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓		✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

Publisher: Frank Schaffer Publications Inc
Distributor: Frank Schaffer Publications Inc
23740 Hawthorne Boulevard
TORRANCE, CA, USA 90505
Telephone: (800) 609-1735
Fax: (800) 837-7260 ; (310) 794-5468
Internet: http://www.frankschaffer.com/fmtpage.html

Copyright: 1998

ISBN: 0768200067

Title: An Introduction to the TI-82 Graphing Calculator

Est. WCP Price(s): $18.95 (US)

NEW

Explorations Series

Modeling Motion: High School Math Activities with the CBR

Annotation:
This resource includes investigation activities that use the calculator-based ranger (CBR) to obtain data from physical phenomena. Using a TI-82 or TI-83 graphing calculator, students obtain a mathematical equation to describe the physical event(s). Activities are well-suited to specific outcomes. Topics include arithmetic and geometric growth, systems of linear equations in two variables, quadratic functions, and exponential functions. The resource provides practice data to enable students to complete the investigations without a CBR, if necessary.

Comments:
- The instructions are only for use with a TI-82 or TI-83 graphing calculator.
- The intended scope of instruction requires a CBR.

Depth Resource

Author(s):
Antinone, L.; Gough, S.

Audience: General

Physical Characteristics:
114 pages, softcover

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
		✓			✓				
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
		✓				✓			

Course(s):

	10	11	12
Applied Mathematics	✓	✓	
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

Publisher: Texas Instruments Incorporated
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1997
ISBN: 1886309140
Title: Modeling Motion: High School Math Activities with the CBR
Est. WCP Price(s): $16.83

BEST COPY AVAILABLE

PURE MATHEMATICS 12
LEARNING AND TEACHING RESOURCES

NEW

Secondary Math

WCP Secondary Math Lab Toolkit (Macintosh / Windows Version 1.1)

Depth Resource

Physical Characteristics:
One CD-ROM and a User's Guide—128 pages, bound—all in a 3-ring binder

Annotation:
The toolkit contains graphical tools for algebra, geometry, data analysis and probability. A text editor, function editor, spreadsheet editor and matrix editor are linked. The graphs are clear and may be transformed in a variety of ways. Probability models use dice and spinners. A visual representation of algebra tiles is included.

Comments:
- Experienced users will be able to use the resource more profitably than beginners.
- There is a high level of linking among all tools within the toolkit.
- The resource provides methods of transforming relations only from within the symbolic editor, but not from graphical forms.
- The algebra tiles representation is very limited and is harder to use and less flexible than the concrete tiles.
- The tutorial materials may be insufficient for users of the toolkit.

System Requirements:
- Macintosh: minimum of a Macintosh LC II, with 12 MB RAM total and System 7.0 or higher, 256 colour 13-inch monitor, 6 MB hard disk space.
- Windows 3.1: Windows 3.1 or 3.11, 486/33 MHz or higher, 12 MB RAM, VGA 13-inch 256 colour monitor, 6 MB hard disk space.
- Windows 95: 486/50 MHz, 12 MB RAM, hard drive, VGA 13-inch 256 colour monitor, 6 MB hard disk space. The use of a Pentium processor with 16 MB RAM is recommended.

Audience: General

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
								✓	✓
Common	C1	C2	C3	C4	C5	C6			
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
		✓		✓	✓	✓	✓	✓	✓

Course(s):

	10	11	12
Applied Mathematics			✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visual
					✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓	✓	✓	✓		✓	✓	✓	✓

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 ; (416) 293-8464
Fax: (416) 293-0846
Internet: http://www.cornerstone.gagepub.ca

Copyright: 1998
ISBN: 0134330528 (User's Guide)
Title: Secondary Math Lab Toolkit (Macintosh/Windows Version 1.1)
Est. WCP Price(s): $129.95

PURE MATHEMATICS 12
LEARNING AND TEACHING RESOURCES

NEW WCP *Explorations Series*
Statistics Handbook for the TI-83

Annotation:
This resource gives detailed instructions on the use of a TI-83 graphing calculator in statistics and probability. It uses real-world applications to illustrate the technical steps taken to obtain necessary statistical information. The book contains an expansion of the information that would be found in a user's manual. There are notes to teachers with suggestions for the classroom. The resource covers material taught throughout the Statistics and Probability strand for grades 10, 11 and 12.

Teacher Resource

Audience: Teacher

Author(s):
Morgan, L.

Physical Characteristics:
157 pages, softcover

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓		✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	✓

Publisher: Texas Instruments Incorporated
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1997
ISBN: 1886309078
Title: Statistics Handbook for the TI-83
Est. WCP Price(s): $23.18

PURE MATHEMATICS 12
LEARNING AND TEACHING RESOURCES

NEW WCP

Explorations Series
Using the TI-86 in Collegiate Mathematics: A Tutorial

Teacher Resource

Author(s):
Dodd, F.; Cruthirds, J.

Physical Characteristics:
177 pages, softcover

Annotation:
This resource gives instruction in the use of the TI-86 graphing calculator to perform matrix and statistics operations, to graph functions, and to solve systems of equations.

Comments:
- About 50% of this resource is extraneous to the WCP.

Audience: Teacher

Cluster(s):

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
Common	C1	C2	C3	C4	C5	C6			
Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9

Course(s):

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓		✓	✓					

Publisher: Texas Instruments Incorporated
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1997
ISBN: 1886309116
Title: Using the TI-86 in Collegiate Mathematics: A Tutorial
Est. WCP Price(s): $22.44

ZAP-A-GRAPH

- ZAP-A-GRAPH (English Macintosh Version 4.2)
- ZAP-A-GRAPH (English Windows Version 4.2)

Depth Resource

Physical Characteristics:
- English Macintosh Version–One 3.5" disc and a manual—24 pages, softcover
- English Windows Version–One 3.5" disc and a manual—24 pages, softcover

Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:
- Access to Publisher's Disks for Production

Annotation:
This is a graphing program for use in learning and reviewing graphs of relations and functions. It uses transformations, derived functions and composition of functions. Relations can be input without recasting into function form.

Comments:
- This program is to be used after a great deal of graphing information is known.
- For solving equations, a graphing calculator may be more effective.

System Requirements:
- Macintosh: System 6.0 or higher, 1 MB RAM.
- Windows: Windows 3.1, 3.11 or Windows 95, 1 MB RAM.

Audience: General/Gifted

Cluster(s):

Applied	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**
Common	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**			
Pure	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**
				✓					✓

Course(s):

	10	11	12
Applied Mathematics			
Pure Mathematics		✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
				✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
				✓			✓		

Publisher: Brain Waves Software Inc.
Distributor: Brain Waves Software Inc.
R.R. #1
FITZROY HARBOR, ON, CANADA
K0A 1X0
Telephone: (613) 623-8686
Fax: (613) 623-8686
Internet: http://home.istar.ca/~bwaves/

Copyright:
1996
1996

Component Titles:
- ZAP-A-GRAPH (English Macintosh Version 4.2)
- ZAP-A-GRAPH (English Windows Version 4.2)

Est. WCP Price(s):
$79.00 (Single User)
$299.00 (10-User Site Licence)
$449.00 (40-User Site Licence)
$79.00 (Single User)
$299.00 (10-User Site Licence)
$449.00 (40-User Site Licence)

BEST COPY AVAILABLE

TITLE LISTING

TITLE/SERIES	COURSE(S)
Acces: The Teacher's Database	Pure Mathematics 10
NEW • Acces: The Teacher's Database (Macintosh Version 3.33)	
NEW • Acces: The Teacher's Database (DOS/Windows Version 3.32)	
NEW • Canadian Math Database (Grades 8-10) (Catalog)	
Acces: The Teacher's Database	Pure Mathematics 11 / 12
NEW • Acces: The Teacher's Database (Macintosh Version 3.33)	
NEW • Acces: The Teacher's Database (DOS/Windows Version 3.32)	
NEW • Canadian Math Database (Grades 11-12) (Catalog)	
Addison-Wesley Applied Mathematics (Western Canadian Edition)	Applied Mathematics 10
NEW • Applied Mathematics 10: Source Book	
NEW • Applied Mathematics 10: Project Book	
Addison-Wesley Mathematics 10 (Western Canadian Edition)	Pure Mathematics 10
• Student Text	
• Independent Study Guide	
• Teacher's Resource Book (includes CD-ROM)	
• Template and Data Kit (CD-ROM Version 1.0)	
NEW • Acces Exercise Database (Macintosh/Windows Version 1.0A)	
Addison-Wesley Mathematics 11 (Western Canadian Edition)	Pure Mathematics 11
• Student Text	
NEW • Independent Study Guide	
NEW • Teacher's Resource Book (includes Selected Solutions CD-ROM) (Macintosh/Windows Version)	
NEW • Template and Data Kit (Macintosh/Windows Version 1.0)	
Addison-Wesley Mathematics 11 (Western Canadian Edition)	Applied Mathematics 11
NEW • Template and Data Kit (Macintosh/Windows Version 1.0)	
Addison-Wesley Mathematics 12 (Western Canadian Edition)	Pure Mathematics 12
NEW • Student Text	
NEW • Template and Data Kit (Macintosh/Windows Version 1.0)	
Balanced Assessment for the Mathematics Curriculum (High School)	Applied Mathematics 10
NEW • Balanced Assessment: High School Assessment: Package 1	Pure Mathematics 10
NEW • Balanced Assessment: Advanced High School Assessment: Package 1	

TITLE LISTING

TITLE/SERIES	COURSE(S)
NEW Exploring Advanced Algebra with the TI-83	Applied Mathematics 10 / 12 Pure Mathematics 10 / 12
The Geometer's Sketchpad	Applied Mathematics 10 / 11 Pure Mathematics 10 / 11
• The Geometer's Sketchpad (Macintosh Version 3)	
• The Geometer's Sketchpad (Windows Version 3.03)	
NEW GrafEq (Macintosh Version 2.06)	Applied Mathematics 10 / 11 / 12 Pure Mathematics 10 / 11 / 12
Explorations Series	Applied Mathematics 10 Pure Mathematics 10
NEW Graphing Calculator Activities for Enriching Middle School Mathematics	
Green Globs & Graphing Equations	Applied Mathematics 10 Pure Mathematics 10 / 11 / 12
NEW • Green Globs & Graphing Equations (Macintosh Version 2.3)	
NEW • Green Globs & Graphing Equations (Windows Version 2.3)	
NEW An Introduction to the TI-82 Graphing Calculator	Applied Mathematics 10 / 11 / 12 Pure Mathematics 10 / 11 / 12
The Learning Equation: Mathematics 10 (Version 1.1)	Pure Mathematics 10
NEW • CD-ROMs 1, 2, 3	
NEW • Student Refresher	
NEW • Teacher's Manual	
MATHPOWER 10 (Western Edition)	Pure Mathematics 10
• Student Text	
• Teacher's Resource	
• Computer Data Bank (Windows Version)	
• Computerized Assessment Bank (Windows Version)	
NEW • Blackline Masters	
NEW • Solutions	
MATHPOWER 11 (Western Edition)	Pure Mathematics 11
NEW • Student Text	
Explorations Series	Applied Mathematics 10 / 11 Pure Mathematics 10 / 11 / 12
NEW Modeling Motion: High School Math Activities with the CBR	

TITLE LISTING

TITLE/SERIES	COURSE(S)
Pure Mathematics 10 (Distance Learning Package)	Pure Mathematics 10
• Module 1: Statistics and Probability	
• Module 2: Patterns and Relations	
• Module 3: Algebra	
• Module 4: Number Connections	
• Module 5: Shape and Space	
• Assignment Booklets: Modules 1-5	
• Learning Facilitator's Manual	
Secondary Math	Applied Mathematics 12
Secondary Math Lab Toolkit (Macintosh/Windows Version 1.1)	Pure Mathematics 10 / 11 / 12
Explorations Series	Applied Mathematics 10 / 11 / 12
Statistics Handbook for the TI-83	Pure Mathematics 10 / 11 / 12
Explorations Series	Applied Mathematics 10 / 11 / 12
Using the TI-86 in Collegiate Mathematics: A Tutorial	Pure Mathematics 10 / 11 / 12
A Visual Approach to Algebra	Applied Mathematics 10 Pure Mathematics 10
ZAP-A-GRAPH	Pure Mathematics 11 / 12
• ZAP-A-GRAPH (English Macintosh Version 4.2)	
• ZAP-A-GRAPH (English Windows Version 4.2)	